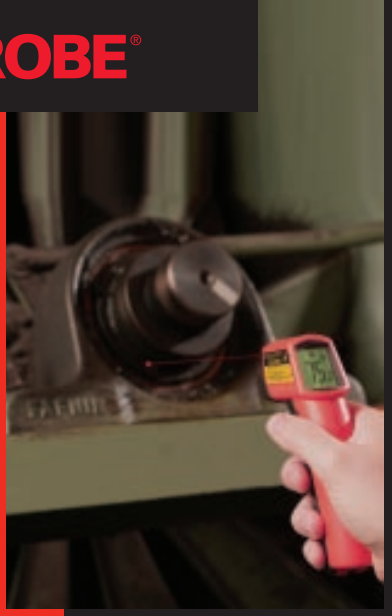
AMPROBE®

Test Tools Catalog 2007/2008

AMPROBE®



Quality and service beyond compare

Our Customers

Throughout the past 50 plus years, the Amprobe® name has become synonymous with clamp-on meters, to the point where it is commonly used as a generic term for such. Yet the brand has expanded its product offering to now over 250 items and has become an established leader in quality test equipment for professionals in the electrical, maintenance, construction, and HVAC markets.

Our products

The products shown in this catalog include an extensive selection of portable multimeters, clamp meters, power quality analyzers, circuit tracers as well as component checkers, HVAC testers and specialty tools such as electrical testers. Also shown is a complete selection of accessories.

Our distributors

The products shown in this catalog are sold and supported by a worldwide network of Amprobe distributors and dealers. Should you require any assistance or have questions about our products or their applications, these local dealers stand ready to serve you.

New Product Highlights

IR608A

IR Thermometer with laser

The IR608A is an infrared thermometer with a laser pointer for easy targeting. A quick and effective diagnostic tool for identifying problems in a wide variety of applications. The IR608A is robust yet lightweight with a solid ergonomic design.

(For more information turn to page 37)

AU92

Automotive Multimeter

Model AU92 is a full featured multimeter that has additional measurement for automotive servicing. It offers a built-in thermometer to measure air, surface or immersion temperatures. The meter also tests engine RPM and dwell in addition to standard multimeter features of voltage, current, resistance and continuity. Perform accurate RPM measurements for 2- and 4-stroke automotive engines using the Inductive Pickup tool. A well designed tool for your automotive testing needs.

(For more information turn to page 13)

ACD-10 TRMS-PLUS

Clamp on Multimeters with Unique Thin Jaws

Two models to choose from, one with True RMS measurements for voltage and current. These two meters offer thinner jaws from the standard clamp meter. Almost a 6 mm thinner for access into tight spaces. Measures up to 600 A AC. Both measure capacitance, frequency through the jaws or test leads. The Data Hold and Max features allow for In-Rush current capturing.

(For more information turn to page 02)

LH41A

AC/DC Low Current Clamp Meter

The compact size of the LH41A makes it ideal for taking general measurements on small conductors. Its excellent accuracy and resolution of 1 mA offers exceptional performance at a reasonable price. The meter offers push button dc Auto Zero for accurate measurements. If you're working on battery-based systems monitoring of load current on small and medium ac and dc loads the LH41A is an excellent choice.

(For more information turn to page 07)

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600A Clamp Multimeters

Amprobe's ACD-10 PLUS meters offer thinner jaws over standard clamp meters. Allowing access to tight measurement areas and still accomodating conductors up to 25 mm. Both meters also measure Capacitance and Frequency. Frequency is measured by either jaws or test leads. Very versatile clamp multimeters.

ACD-10 PLUS, ACD-10 TRMS-PLUS
Clamp Multimeters with Unique Thin Jaws

- TRMS Measurement (ACD-10 TRMS PLUS only)
- AC and DC Voltage to 600V
- AC Current to 600A
- Resistance to 40 MΩ with Continuity Buzzer
- Capacitance to 3000 µF
- Frequency measurement
- Hold & Maximum reading functions
- Auto ranging
- Thinner jaws (approx 6.35mm thinner)
- In Rush Current
- Jaw opening 25 mm
- Safety acc. EN 61010, CAT III/600 V

FEATURES	ACD-10 TRMS-PLUS	ACD-10 PLUS
TRMS Measurement	Yes	N/A
AC Voltage	4.000, 40.00, 400.0, 600V	
DC Voltage	400.0m, 4.000, 40.00, 400.0, 600V	
AC Current	40.00, 400.0, 600A	
Resistance with Continuity Buzzer	0-400.0 Ω, 4.000 kΩ, 40.00 kΩ, 400.0 kΩ, 4.000 MΩ, 40.00 MΩ	
Capacitance	500.0nF, 5.000µF, 50.00µF, 500.0µF, 3000µF	
Frequency (Using Jaw or Test Leads)	40-400Hz with Jaw, 10Hz to 100kHz with test leads	

400A Clamp Multimeters

These unique mini-clamp meters meet your needs when measuring up to 400 amps. Their compact size make them a handy daily tool to fit into the slightest of tool kits. With an easy to read digital display, Data Hold capability, Analog Bargraph and 10 mA resolution when using the 40A range.

AC40B/AD40B Mini Clamp Type Digital Multimeter / Clamp Meter

- 400 A AC range
- 600 V AC and DC range (only AC40B)
- 4000-count display with bargraph
- 10mA resolution in lowest range
- Autoranging
- Data Hold
- Auto power-off
- Jaw opening 25 mm
- Safety acc. EN 61010, CAT III/600 V

FEATURES	AD40B	AC40B
AC Voltage	N/A	400.0, 600 V
DC Voltage	N/A	400.0, 600 V
AC Current	40.00, 400.0 A	
Resistance	N/A	400 Ω
Continuity (audible)	N/A	Continuous Tone and •))) Display at R < 40 Ω
Overload Protection	660A for AC current only 660V RMS for all other measurements	

400A Clamp Multimeters

The ACD-14 Plus is the professionals' choice for both HVAC & Electrical applications due to its complete set of measuring features. Its dual displays allows viewing amperage and voltage measurements simultaneously.

ACD-14 PLUS, ACD-14 TRMS-PLUS Digital Clamp Multimeters

- TRMS Measurement (ACD-14 TRMS-PLUS only)
- Dual Displays - Permits simultaneous reading of Amperage & Voltage
- Micro Amps measurement for testing "Flame Sensors"
- Capacitance to 3000 µF
- Temperature w/Type-K Thermocouple
- AC and DC Voltage to 600V
- AC current to 400A
- Resistance to 40MΩ
- Continuity Buzzer
- Frequency Measurement
- Auto Power Off
- Auto Ranging
- Hold & Maximum Readings
- In Rush Current
- Jaw opening 26 mm
- Safety acc. EN 61010, CAT III/600 V

CAT III 600V c UL us

This versatile clamp multimeter offers numerous measurement features in a professional sized package.Versatile and rugged for facility maintenance to field service.

ACDC-400 Digital AC/DC Clamp Multimeter

- AC/DC Current up to 400A
- AC/DC Voltage up to 600V
- Resistance measurement
- Continuity test
- Data Hold
- MAX/MIN recording
- Relative measurement
- Backlight
- Analog bargraph
- Auto or Manual range selection
- "Third hand" - test probe holder
- Jaw opening 30 mm
- Safety acc. EN 61010, CAT III/600 V

FEATURES	ACD-14 FX	ACD-14 TRMS-FX	ACDC-400
TRMS Measurement	N/A	Yes	N/A
AC Voltage	4.000, 40.00, 400.0, 600 V		400.0 m, 4.000, 40.00, 400.0, 600 V
DC Voltage	4.000, 40.00, 400.0, 600 V		400.0 m, 4.000, 40.00, 400.0, 600 V
AC Current	40.00 / 400.0 A		40.00 / 400.0 A
DC Current	N/A		40.00 / 400.0 A
AC/DC Micro Amps (Using Test Leads)	400µA, 2000 µA		N/A
Resistance with Continuity Buzzer	0-400.0 Ω, 4.000 kΩ, 40.00 kΩ, 400.0 kΩ, 4.000MΩ, 40.00 MΩ		
Capacitance	500.0nF, 5.000µF, 50.00µF, 500.0µF, 3000µF		N/A
Frequency (Using Jaw or Test Leads)	10Hz to 100kHz		N/A
Temperature	-20°C to 300°C		N/A

CAT III 600V c UL us

Professional 1000A Clamp Meters

CAT III 600V c UL us

ACD-6 PRO, ACD-6 TRMS-PRO
1000 A AC Digital Clamp Meters

These two ACD-6 high current clamp meters also offer multimeter measurements of AC and DC voltage, Resistance and audible continuity. The True RMS version offers improved results when measuring in noisy AC environments. Large digital display.

- TRMS (ACD-6 TRMS-PRO) when measuring in noisy AC environments (ACD-6 TRMS-PRO only)
- AC Current to 1000A
- AC/DC voltage to 600V
- Resistance to 40 MΩ
- Diode Test
- Audible continuity
- Includes carrying case
- Extra large LCD for easy viewing of measurement results
- Jaw opening 45 mm
- Safety acc. EN 61010, CAT III/600 V

CAT III 1000V

AD105A
True RMS 1000 A AC/DC Clamp Meter

A clamp meter designed for electrical contractors, electricians, and industrial plant maintenance personnel. The AD105A measures AC and DC current up to 1000 Amps. Frequency is measured by jaw up to 10kHz. Max Conductor of 50 mm.

- TRMS when measuring in noisy AC environments
- Wide range to 1000 Amps, AC and DC
- Measures frequency through the jaws or test leads
- Autoranging
- 4000-count
- Belt-clip sleeve case included
- Jaw opening 50 mm
- Safety acc. EN 61010, CAT III/1000 V

FEATURES	ACD-6 PRO	ACD-6 TRMS-PRO	AD105A
TRMS Measurement	N/A	Yes	Yes
AC Voltage	4.000, 40.00, 400.0, 600V		N/A
DC Voltage	400.0m, 4.000, 40.00, 400.0, 600V		N/A
Resistance	400.0 Ω 4.000 / 40.00 / 400.0 kΩ 4.000 / 10.00 MΩ		N/A
AC Current	400.0 / 1000 A		400, 1000 A
DC Current	N/A	N/A	400, 1000 A
Frequency	N/A	N/A	1 Hz in 4 kHz

Professional 1000A Clamp Meters

ACDC-100, ACDC-100 TRMS
1000 A AC/DC Digital Clamp Multimeters

Where accuracy, quality, and newest technology meet. The ACDC-100 offers superior AC/DC measurement capabilities, highest product quality and enhanced ergonomics. The TRMS version addresses needs of professionals who rely on performance and reliability.

- TRMS & Backlight Screen (ACDC-100 TRMS only)
- Auto and manual ranging
- Relative zero mode
- Auto power off
- MAX capture function for inrush current measurements (30 ms response)
- Data hold
- Audible continuity
- Large digital display
- Carrying case, test leads, batteries and user manual included
- Jaw opening 50 mm
- Safety acc. EN 61010, CAT III/600 V

CAT III 600V c UL us

Professional 2000A Clamp Meter

ACD-15 TRMS-PRO
2000 A AC Digital Clamp Multimeter

The AC-15 clamp meter for when you need to measure high current. Measures up to 2000A AC. Plus it measures AC and DC voltage, resistance and offers audible continuity. Additional feature is a built in non-contact voltage detector. Choose the True RMS version when working in noisy AC environments. Large digital display.

- TRMS & Backlight Screen
- Measurements: AC/DC Voltage up to 600V, AC Current up to 2000A, Resistance, Frequency and Capacitance
- Non-contact Voltage Level Detection
- Audible continuity
- AutoTect™ feature automatically selects DCV, ACV or Resistance Ω
- Auto and manual ranging
- Auto power off
- Data hold
- Carrying case, test leads, batteries (installed) and manual included
- "Third hand" - test probe holder
- Jaw opening 45 mm
- Safety acc. EN 61010, CAT III/600 V

CAT III 600V c UL us

FEATURES	ACDC-100	ACDC-100 TRMS	ACD-15 TRMS-PRO
TRMS Measurement	N/A	Yes	Yes
AC Current	400.0 / 800 A		600.0 / 2000 A
DC Current	400.0, 1000 A		N/A
Voltage AC/DC	600V		6.000, 60.00, 600.0V
Resistance	400.0, 4.000k, 40.00k, 400.0, 4.000M, 40.00 MΩ		6.000k, 60.00k, 600.0k, 6.000 MΩ
Frequency	N/A		10Hz to 1kHz
Capacitance	500.0nF, 5.000, 50.00, 500.0, 3000 µF		100.0, 1000 nF 10.00, 100.0, 2000 µF
Non-contact Voltage	N/A		Yes

Specialty Clamp Multimeters

CAT II 1000V CAT III 600V

c SA US

AC75B Three tools in one: 600 A AC clamp meter, multimeter and thermometer

Custom designed to make HVAC/R Service, Electrical, and Industrial maintenance tasks faster and easier.

- 600A AC Current
- Digital thermometer 400 °C, Type K probe included
- AC/DC 750 V/1000 V
- 40 MΩ Resistance
- Low DC µA Amps for flame rod detector testing
- Capacitance to 4000 µF for motor run/start testing
- Continuity beeper
- 4000-count large digit display
- Auto power off
- Full overload protection
- Jaw opening 35 mm
- Safety acc. EN 61010, CAT III/600 V, CAT II/1000 V

CAT II 1000V CAT III 600V

c SA US

AC71B Automatic 600 A AC Clamp Multimeter

Automatic AC clamp meter with two unique features: AutoTect™ and automatic backlight. The AutoTect feature senses what type of measurement is being made across the test leads. The automatic bright blue backlight has a sensor that recognizes when the ambient light becomes dim and turns itself on.

- AutoTect™ Function – automatically selects AC volts, DC volts or resistance
- Automatic bright blue backlight
- Easy one-button control
- AC current to 600 A
- AC volts to 750 V
- DC volts to 1000 V
- Resistance and Continuity Beeper
- Data Hold
- Jaw opening 32 mm
- Safety acc. EN 61010, CAT III/600 V, CAT II/1000 V

CAT III 300V CAT II 600V

c UL US

AC68C AC/DC TRMS 600A Clamp Meter

- Measures non-linear load current
- True RMS reading
- Autoranging for frequency measurement
- Data Hold button, holds the display reading for all functions and ranges
- Measures freqency through jaws or test leads
- Low battery indicator
- DC current (Zero adjustment button)
- Peak Hold, converts and displays the peak value for AC volts and amps readings
- Jaw opening 40 mm
- Carrying case included
- Safety acc. EN 61010, CAT III/300 V, CAT II/600 V

Leakage Clamp Meters

The compact size of these two meters make them ideal for taking general measurements on small conductors. Their excellent accuracy and resolution offer exceptional performance.

LH41A Low Current AC/DC Clamp Meter

- Measures AC and DC current into the low milliamp range up to 40A
- Auto Zero DC for correct measurement every time
- High 1 mA current resolution for quick circuit comparison on sensor and control circuits
- Auto power off function
- Jaw opening 20 mm
- Safety acc. EN 61010, CAT III/300 V

AC50A Leakage AC Current Clamp Multimeter

- AC current measurement to 60 A
- Leakage current measurements with resolution of 0.01 mA
- AC voltage to 400 V
- Resistance measurement and continuity beeper
- Min/Max control to see largest and smallest values
- Jaw opening 30 mm
- Safety acc. EN 61010, CAT III/300 V

Recording Clamp Multimeters

Need the perfect tool to troubleshoot a system? These clamp-ons provide a full range of measurements, enhanced with data logging capabilities, to catch what the eye can't see. Double the efficiency, with an optional PC interface kit (RS-232 KIT2).

ACD-16 PRO, ACD-16 TRMS-PRO 1000A AC Data-Logging Clamp Multimeters

- TRMS & Backlight Screen (ACD-16 TRMS Pro only)
- Measurements: AC/DC Voltage up to 600V, AC Current up to 1000A, Resistance, Frequency and Temperature
- Data-logging 5400 points
- Audible continuity
- Auto power off
- Automatic polarity
- Data hold
- "Third hand" - test probe holder
- Jaw opening 45 mm
- Safety acc. EN 61010, CAT III/600 V

FEATURES	AC75B	AC71B	AC68C	AC50A	LH41A	ACD-16 PRO	ACD-16 TRMS-PRO
TRMS	N/A		Yes	N/A			Yes
AC Voltage	4.000, 40.00, 400.0, 750 V	1.3 V to 750.0 V	600 V	400.0 V	N/A	600.0V	
DC Voltage	4.000, 40.00, 400.0, 1000 V	1.8 V to 1000.0 V -0.6 V to -1000.0 V	400.0, 600 V	N/A		600.0V	
AC Current	400.0, 600 A			40.00m, 400.0m, 4.000, 40.00, 60.0 A	N/A	40.0 / 400.0 / 1000 A	
DC Current	400.0, 4000 A	N/A	400.0, 600 A	N/A	4.000, 40.00 A	N/A	
Resistance	400, 4 k, 0 k, 400 k, 4 M, 40 MΩ	100.0 Ω	4.000 kΩ	400.0 Ω	N/A	999.9Ω	
Diode Test	N/A		0.001 V	N/A			
Continuity	Yes				N/A		
Capacitance	4 n, 40 n, 400 n, 4 Ω, 40 Ω, 400 Ω, 4 mF	N/A					
Frequency	N/A		4.000 kHz, 20.00 kHz	N/A		5.00Hz to 500.0Hz	
Temperature	0 °C, 400 °C	N/A		N/A		-50 °C to 300 °C	
Peak Hold	N/A	N/A	Yes	N/A			

Industrial Clamp Multimeters

ACDC-620T Digital 1000A AC/DC Clamp Multimeter

- TRMS Measurement
- AC/DC Voltage up to 1000V, AC/DC Current up to 1000A, Resistance, Capacitance, Temperature, and Continuity Buzzer
- Dynamic Min/Max/Avg recording
- In-rush Peak Current capture (1 ms response)
- Temperature measurement
- Dual Display of °C & °F readings
- Continuity Buzzer
- Reading Hold function
- Auto/Manual Ranging and Auto Power Off
- Analog Bar Graph indicator
- Jaw opening 52 mm
- Safety acc. EN 61010, CAT III/600 V

ACDC-3000 Digital 1000A AC/DC Clamp Multimeter

- TRMS Measurement
- AC Voltage up to 750V, DC Voltage up to 1000V, AC/DC Current up to 1000A, Resistance, Frequency, % Duty Cycle, Continuity Buzzer
- Dynamic Recording of Max, Min and Average readings
- In-rush Peak Current capture (1 ms response)
- Dual Display of Amp & Freq., Amps & Duty Cycle, Voltage & Freq., Voltage & Duty Cycle
- 43 Segment, High speed, Analog Bar Graph
- Continuity Buzzer
- Auto/Manual Ranging and Auto Power Off
- Jaw opening 52 mm
- Safety acc. EN 61010, CAT III/600 V

ACD-330T Digital AC Clamp Multimeter

- TRMS Measurement
- AC/DC Voltage up to 1000V, AC Current up to 1000A, Resistance, Continuity Buzzer, Frequency
- Dynamic Min/Max/Avg Recording
- In-rush Peak Current capture (1 ms)
- Reading Hold function
- Dual Display of Frequency with Current or Voltage
- Continuity Buzzer and Diode Test
- Auto/Manual ranging
- Auto power off
- Jaw opening 52 mm
- Safety acc. EN 61010, CAT III/600 V

CAT III 600V c UL us

FEATURES	ACDC-620T	ACDC-3000	ACD-330T
AC Voltage	400.0, 1000V	4.000, 40.00, 400.0, 750V	400.0, 1000V
DC Voltage	400.0, 1000V	4.000, 40.00, 400.0, 1000V	400.0, 1000V
Current AC/DC	400.0, 1000A	40.00, 400.0, 1000A	400.0, 1000A
AC + DC TRMS Voltage	N/A	4.000, 40.00, 400.0, 750V	N/A
AC + DC TRMS Current	N/A	40.00, 400.0, 1000A	N/A
Resistance	400.0 Ω, 4.000 kΩ	400.0k Ω, 4.000MΩ, 40.00MΩ	400.0 Ω, 4.000 kΩ
Capacitance	400.0, 4000 µF	N/A	N/A
Frequency	N/A	10.00-199.99 Hz, 1999 Hz, 2.00-19.99 kHz, 199.9 kHz	100, 1000 Hz
Temperature	-40°C to 1372°C	N/A	N/A
% Duty Cycle	N/A	0.0-99.9%	N/A
In-rush Peak Current Max (Ac or DC)	400.0, 1000 A	N/A	N/A
Continuity Buzzer	Yes	Yes	Yes
Diode Test	Yes	Yes	N/A

Power Quality Clamp Meter

These instruments combine the standard features of professional clamp meters, with full Power analyzing capabilities. Increase measuring efficiency using the ACD-31P or ACD-41PQ with an optional PC interface kit (RS-232 KIT2). View individual harmonics using the ACD-56 HPQ.

ACD-31P, ACD-41PQ
1000A Power Quality Clamp Meters

- TRMS Measurement and Backlight Screen
- Measures Total Harmonics Distortion (41PQ only)
- Voltage to 600V, Current to 1000A
- Resistance, Frequency & Temperature
- Active (W), Reactive (var) and Apparent (VA) Power with Power Factor
- Auto VA - Auto Selection of AC Volts, DC Volts or AC Amps (ACD-41PQ only)
- Optional PC interface capability
- Audible continuity
- Peak hold and Data hold
- "Third hand" - test probe holder
- Voltage overload protection for all functions up to 600V AC/DC
- Jaw opening 45 mm
- Safety acc. EN 61010, CAT III/600V

ACD-56 HPQ Power Quality Digital Clamp Multimeters

- TRMS & Backlight Screen
- AC Current up to 400A
- AC/DC Voltage up to 600V
- Resistance
- Frequency
- Capacitance
- Voltage and Current Harmonics up to 25th with THD%
- Non-contact Voltage Level Detection
- Audible continuity
- Auto and manual ranging
- Auto-check feature automatically selects DCV, ACV or Resistance Ω
- MAX/MIN/AVG recording
- Auto power off
- "Third hand" - test probe holder
- Jaw opening 30 mm
- Safety acc. EN 61010, CAT III/600 V

CAT III 600V c UL us

FEATURES	ACD-31P	ACD-41PQ	ACD-56 HPQ
TRMS Measurement	Yes		Yes
AC Current	40.00 / 400.0 / 1000 A		0 - 399.9 A
Voltage AC/DC	600.0 V		1.6 - 599.9 V
Resistance	999.9 Ohms		0 – 499.9 / 999/ 1999 Ohms
Frequency	5.00Hz to 500.0 Hz		40.0 - 399.9 Hz
Active Power (W)	0 to 600.0 kW		N/A
Reactive Power (VAR)	0 to 600.0 kVAR		N/A
Apparent Power (VA)	0 to 600.0 kVA		N/A
Power Factor	0.10 to 0.99		0.20 - 1.00
THD-R	N/A	0.0% to 99.9%	N/A
THD-F	N/A	0.0% to 99.9%	N/A
Temperature	-50° C to 300° C		N/A
AC Peak Voltage	N/A		10 to 850 V @ 1ms Rt
AC Peak Current	N/A		10 to 800 A @ 1ms Rt
Voltage / Current Harmonics	N/A		THD, Individual harmonics 1 to 25

Full-Featured, Full-Size Multimeters

Five meters designed for electronic, electrical, plant maintenance and HVAC applications.

38XR-A
True RMS with optical PC interface

Great for field troubleshooting in industrial, automation, process and plant environments.

- 10,000-count with high 0.25 % accuracy
- Bright blue backlight for dim environments
- Duty cycle, capacitance and frequency
- Magne-Grip™ holster with magnetic hanging strap
- 4-20 mA loop current with % readout
- Temperature to 1300 °C, type K thermocouple included
- True-RMS AC + DC coupled for accurate measurements
- RS-232 data out for use with optional software, Model 38SW-A
- Safety acc. EN 61010, CAT IV/600V, CAT III/1000 V

37XR-A
True RMS with component and logic test

True RMS meter for electronics troubleshooting at the bench or job site. The highest accuracy meter in the XR series.

- Autoranging 10,000 count with 0.1 % accuracy for the most accurate measurements
- LCR functions: inductance, capacitance and resistance
- Frequency, duty cycle and logic test
- Bright blue backlight for dim environments
- Magne-Grip™ holster with magnetic hanging strap
- Safety acc. EN 61010, CAT III/600V, CAT II/1000 V

34XR-A
True RMS with temperature and backlight

Designed for maintenance, repair and installation of electrical and electro-mechanical equipment. Ideal for contractors and field service technicians.

- True RMS for the most accurate measurements
- Extended 4000 µF capacitance range for motor run/start testing
- Bright blue backlight for dim environments
- Duty cycle, frequency and capacitance for complete measurement capability
- Temperature to 1000 °C with a type K thermocouple included
- Magne-Grip™ holster with magnetic hanging strap
- Data hold, Min/Max and bar grap
- Safety acc. EN 61010, CAT III/600V, CAT II/1000 V

33XR-A Manual ranging w/ temperature & capacitance

33XR-A gives the contractor and field service technician all the essential measurement functions they need in a rugged package.

- Temperature, frequency & capacitance
- Extended 4000 µF capacitance range for motor run/start testing
- Magne-Grip™ holster with magnetic hanging strap
- Data hold, Peak Hold, Min/Max and REL
- Safety acc. EN 61010, CAT III/600 V, CAT II/1000 V

CAT III 600V CAT II 1000V c UL us

30XR-A Includes VolTect™, a built-in non-contact voltage tester

The 30XR-A has all the basic functions for automotive, residential and education applications.

- 9 functions, 30 ranges handles most measurement needs
- Magne-Grip™ holster with magnetic hanging strap frees both hands for work
- Battery/fuse door designed for easy accessibility
- Battery tester
- Safety acc. EN 61010, CAT III/300V, CAT II/600 V

CAT III 300V CAT II 600V c UL us

FEATURES	30XR-A	33XR-A	34XR-A	37XR-A	38XR-A
DC Voltage	200.0mV, 2.000, 20.00, 200.0, 600V	400.0m, 4.000, 40.00, 400.0, 1000V		1000m, 10.00, 100.0, 1000V	
AC Voltage	200.0mV, 2.000, 20.00, 200.0, 600V	400.0m, 4.000, 40.00, 400.0, 750V		1000m, 10.00, 100.0, 750V	
DC Current	200.0µ, 2.000m, 20.00m, 200.0m, 10A	400.0µ, 4.000m, 40.00m, 300.0m, 10.00A		100.0µ, 1000µ, 10.00m, 100.0m, 400.0m, 10.00A	
AC Current	200.0µ, 2.000m, 20.00m, 200.0m, 10A	400.0µ, 4.000m, 40.00m, 300.0m, 10.00A		100.0µ, 1000µ, 10.00m, 100.0m, 400.0m, 10.00A	
Resistance	200.0 Ω, 2.000k, 20.00k, 200.0k, 2.000M, 20.00MΩ	400.0, 40.00k, 4.000MΩ	400.0, 4.000k, 40.00k, 400.0k, 4.000M, 40.00MΩ	1000.0, 10.000k, 100.00k, 1000.0k, 10.00M, 40.00MΩ	
Continuity	Yes				
Diode	Yes				
Non-contact voltage detect	Yes	N/A			
Capacitance	N/A	4.000µF, 40.00µF, 400.0µF, 4000µF		40.00n, 400.0n, 4.000µ, 40.00µ, 400.0µF	
Frequency	N/A	4.000k, 40.00k, 400.0k, 1MHz		100.00, 1.0000k, 10.000k, 100.00k, 1.0000M, 10.000MHz	
Temperature	N/A	1000 °C	1000 °C	N/A	1300 °C
Duty cycle	N/A	N/A	0.0 to 90.0 %	0.00 to 90.00 %	
Logic test	N/A			Yes	N/A
Inductance	N/A			40 H	N/A
dBm	N/A			-13dBm to + 50dBm	-13dBm to + 50dBm
Battery test	1.5V, 9V	N/A			

Magne-Grip™ Holster with magnetic hanging strap

This holster protects the meter and provides the "third hand" DMM users need. A magnetic hanging strap secures the meter to a convenient steel surface, freeing both hands for work.

Optional RS-232 cable and software, 38-SWA

Real-time data acquisition software logs and displays data from all 38XR-A measurement functions.

Compact, Full-Featured Multimeters

The three XP Series digital multimeters are full-featured, compact in size with two unique extras: VolTect™ and our exclusive Magne-Grip™ Holster. Every XP DMM includes select features that make your testing safer, easier, and more efficient whether it be in field service, electronic repair, electrical or HVAC applications. Delivering the best performance in a compact instrument, the XP Series is the right choice for your work.

35XP-A For HVAC, plant maintenance technicians and residential electricians

- Temperature measurement capability to 1000 °C
- Capacitance for motor run/start test
- 0.1 µA resolution for flame sensor testing
- Frequency
- Safety acc. EN 61010, CAT III/300 V, CAT II/600 V

15XP-A For electronics engineers, technicians and field service

- Autoranging display for faster measurements
- TTL logic test for digital circuits
- Integrated tilt stand for easy bench use
- Diode test for component level troubleshooting
- Special 2000 MΩ resistance range
- Safety acc. EN 61010, CAT III/300 V, CAT II/600 V

5XP-A For residential, commercial and general troubleshooting applications

- 27 ranges/10 functions: a complete performance, general purpose digital multimeter
- Battery load test with 1.5 volt and 9 volt capabilities
- Min/Max records minimum and maximum values
- Safety acc. EN 61010, CAT III/300 V, CAT II/600 V

CAT III 300V CAT II 600V c SA us

FEATURES	5XP-A	15XP-A	35XP-A
DC Voltage	200.0mV, 2.000, 20.00, 200.0, 1000V		400.0m, 4.000, 40.00, 400.0, 1000V
AC Voltage	200.0mV, 2.000, 20.00, 200.0, 750V		400.0m, 4.000, 40.00, 400.0, 750V
Current AC/DC	200.0µ, 2.000m, 20.00m, 200.0mA	200.0µ, 2.000m, 20.00m, 200.0m, 2A	400.0µA, 4.000µA, 40.00mA, 400.0mA, 2A
Resistance	200.0 Ω, 2.000k, 20.00k, 200.0k, 2.000M, 20.00MΩ	200.0 Ω, 2.000k, 20.00k, 200.0k, 2.000M, 20.00M, 2000MΩ	400.0, 4.000k, 40.00k, 400.0k, 4.000M, 40.00MΩ
Continuity beeper	Yes		
Non-contact voltage	70 V to 600 VAC (50 Hz to 60 Hz)		
Capacitance	N/A		4.000n, 40.00n, 400.0n, 4.000µ, 40.00µ, 400.0µ, 4.000mF
Frequency	N/A		4.000k, 40.00k, 400.0k, 1MHz
Temperature	N/A		-20 °C to1000 °C
Logic test	N/A	TTL, 20 MHz	N/A
Battery test	1.5 V, 9 V	N/A	

Available on all XP Series meters: Magne-Grip™ Holster with magnetic hanging strap frees both hands for work. VolTect™ non-contact voltage detection lets you instantly detect dangerous ac line voltages.

Don't let the compact size of these meters fool you. Housed in a well-built and sturdy case design, they still offer a complete feature measurement set. Built for the field service person who uses their meter every day. But also a great meter for those occasional measurement requirements. Temperature capability in Model AM-240.

CAT III 600V

AM-220, AM-240 Compact, Full-Featured Digital Multimeters

- AC and DC voltage to 600V
- AC and DC current to 10A
- Temperature to 750 °C
- Resistance to 40 MΩ
- Capacitance to 4000 µF
- Frequency
- Temperature measurement with selectable F/C (AM-240 only)
- AC/DC micro Amps for sensors diagnosis
- MAX, MIN and Relative measurements
- Auto and Manual Ranging
- Tilt stand
- Safety acc. EN 61010, CAT III/600 V

Automotive Multimeter

Model AU92 is a full featured multimeter that has additional measurement features for automotive servicing. It offers a built-in thermometer and tests engine RPM and dwell as well as standard multimeter features of voltage, current, resistance and continuity.

AU92 Digital Automotive Multimeter

- Performs all standard electrical test for on-car and bench troubleshooting including tach, dwell, volts, ohms & diode
- Tests engine RPM and dwell
- Measures AC/DC voltage, DC current, resistance, diodes and continuity beeper
- Accurate RPM measurements for 2- and 4-stroke automotive engines using the Inductive Pickup
- Locate faulty wiring and components
- Data Hold button retains display data
- Duty cycle and direct DWELL reading
- High impact over-molded case
- Includes inductive pick-up probe, test leads, test lead extender tips, threaded alligator clips, type k temperature probe, spare fuse

Probe Style Multimeter

CAT II 600V CAT III 300V

DM73C Probe Style Multimeter for one-hand operation

- Unique pen shape for measuring in hard to get to places
- Two Probe Tip sizes, 75 and 13 mm
- Data Hold to freeze measurement value
- Includes alligator grounding clip
- 3400-count digital plus analog bargraph
- Safety acc. EN 61010, CAT III/300 V, CAT II/600 V

FEATURES	AM-220	AM-240	DM73C
Voltage AC	400m, 4.000, 40.00, 400.0, 600 V		3.400, 34.00, 340.0, 600V
Voltage DC			340.0m, 3.400, 34.00, 340.0, 600V
Current AC/DC	400.0µ, 4000µ, 40.00m, 400.0m, 4.000, 10.00A		N/A
Resistance	400.0, 4.000k, 40.00k, 400.0k, 4.000M, 40.00MΩ		340.0, 3.400k, 34.00k, 340.0k, 3.400M, 34.00MΩ
Capacitance	40.00n, 400.0n, 4.000µ, 40.00µ, 400.0µ, 4000µF		N/A
Frequency	10.00, 100.0, 1000, 10.00k, 100.0k, 1000k, 10MHz		N/A
Diode	N/A		Yes
Continuity	Yes		
Duty Cycle	0.1%-99.9%		N/A
Temperature	N/A	-50° to 750°C	N/A

Pocket Multimeters, PM Series

Three multimeters with innovative features in an ultra-compact size. Simplified interface with easy one-touch button control, oversize digital display screens.

Progressive design with two remarkable features called VolTect™ and AutoTect™. VolTect™ feature is a built-in AC voltage detector. Auto-Tect™ feature is a function that automatically selects the meter to display between AC volts, DC volts or resistance, depending upon what the meter senses at the probe tips (PM53A, PM55A).

Compact size offers a meter that is only .95 cm (.375 in) thick and weighs less than 85 g (3 oz). Low Z input impedance to eliminate ghost voltages. Hi Z input impedance for electronic circuitry (PM55A only).

CAT III 300V, CAT II 600V, c UL us

PM55A Automatic Precision Pocket Multimeter

- AutoTect™ feature detects and displays AC volts, DC volts or resistance
- VolTect™ feature, a built-in AC voltage detector
- Extra features of capacitance, frequency and microamp current
- Option of Hi Z or Low Z input impedance for ghost voltages
- Includes zippered carrying case and protective holster
- Safety acc. EN 61010, CAT III/300 V, CAT II/600 V

CAT III 300V, CAT II 600V, c UL us

PM53A Pocket size digital multimeter with AutoTect™

- Non-contact AC voltage detection, VolTect™ feature
- AutoTect™ feature detects and displays AC volts, DC volts or resistance
- Low Z input impedance eliminates ghost voltage readings
- Safety acc. EN 61010, CAT III/300 V, CAT II/450 V

CAT II 450 V, CAT III 300V, c UL us

PM51A Pocket size multimeter with frequency & capacitance

- Seven different measurement functions with 27 full ranges of measurement
- Oversized digital display with large digits and icons
- Safety acc. EN 61010, CAT III/300 V, CAT II/600 V

FEATURES	PM51A	PM53A	PM55A
Voltage AC/DC	400.0m, 4.000, 40.00, 400.0, 600V	6.000, 60.00, 450.0V	6.000, 60.00, 600.0V
Resistance	400.0, 4.000k, 40.00k, 400.0k, 4.000M, 40.00MΩ	600.0, 6.000k, 60.00k, 600.0k, 6.000MΩ	
AC/DC uA Current	N/A		400.0u, 2000uA
Frequency	400 Hz, 4 kHz, 40 kHz, 400 kHz, and 1 MHz	100 Hz, 1 kHz, and 10 kHz	10.00 Hz - 30.00 kHz
Capacitance	500.0n, 5.000µ, 50.00µ, 500.0µ, 3000µF	100.0n, 1000n, 10.00µ, 100.0µF	
Non-Contact Voltage Detection	N/A	Yes	
Diode test	0.25mA	N/A	0.48mA

General Purpose Meters

Turn to this selection of general purpose testers when you need a choice between analog, compact, digital or unique sizes. These meters are great for the everyday user or for those occasional measurements you need to make.

DM7C Compact multimeter

- 6 functions/14 ranges
- Special ranges to test batteries
- Industry standard test leads, safety rated
- Protective holster included
- Safety acc. EN 61010, CAT II/600 V

DM9C Compact autoranging meter

- High-resolution, 4000-count autoranging
- 7 functions/23 ranges
- Battery Test Function with Go/NoGo LED indicator
- Protective holster included
- Safety acc. EN 61010, CAT II/600 V

DM78B Voltage, continuity, diode and resistance in a credit card size meter

- 5 functions/16 ranges
- Continuity test: Buzzer alert
- Auto power off saves batteries
- Data Hold
- Protective case included
- 3200-count display with analog bargraph
- Safety acc. EN 61010, CAT II/300 V

AM8C Analog multimeter for the home, car or workshop

- High sensitivity taut band movement
- Five functions/15 ranges
- Battery test
- Ohms zero adjust
- Compact size
- Safety acc. EN 61010, CAT II/300 V

FEATURES	DM7C	DM9C	DM78B	AM8B
DC Voltage	2.000, 20.00, 200.0, 600V	400.0m, 4.000, 40.00, 400.0, 600V	320.0m, 3.200, 32.00, 320.0, 600V	2.5, 10, 50, 150, 300 V
AC Voltage	200.0, 600V	400.0m, 4.000, 40.00, 400.0, 600V	3.200, 32.00, 320.0, 600V	50, 150, 300 V
DC Current	200 mA	40.00, 400m, 10.00A	N/A	0.5, 10, 250 mA
AC Current	N/A	40.00, 400m, 10.00A	N/A	N/A
Resistance	2000, 20.00k, 200.0k, 2MΩ	400.0, 4.000k, 40.00k, 400.0k, 4.000M, 40.00MΩ	320.0, 3.200k, 32.00k, 320.0k, 3.200M, 32.00MΩ	5 k Ω, 500 kΩ
Diode	Yes			N/A
Continuity	Yes			N/A
Battery Test	1.5V, 9V	N/A		1.5V, 9V

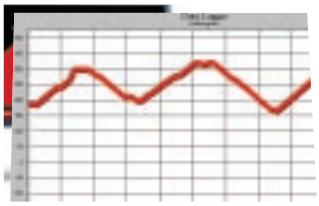
True RMS Precision Digital Multimeters

These "top of the line" digital multimeters are affordable without sacrificing an array of features and functions. From True RMS to PC Connectivity. Amprobe's Precision DMMs excel in the professional environment.

AM-140 TRMS, AM-150 TRMS, AM-160 TRMS
Precision TRMS Digital Multimeters with PC Connection

- True RMS (TRMS)
- AC / DC Voltage, Resistance, AC/DC Current, Frequency,Capacitance, and Temperature
- Data Logging (AM-150 only)
- Optical isolated PC interface capability
- MAX, MIN MAX-MIN recording
- Peak hold
- Auto and manual ranging
- Data hold
- Audible and visual warning against improper plug-in
- Relative zero mode
- DC Loop Current 4-20mA
- dBm reading with 20 selectable impedance values
- Backlight display
- Large, easy to read LCD display
- Audible continuity
- "Third hand" - test probe holder
- Safety acc. EN 61010, CAT IV/600 V, CAT III/1000 V

CAT IV 600V CAT III 1000V c UL us



FEATURES	AM-150	AM-140	AM-160
AC Voltage	50.00, 500.0mV, 5.000, 50.00, 500.0, 1000V	500.00m, 5.0000, 50.000, 500.00, 1000.0V	
DC Voltage	50.00, 500.0mV, 5.000, 50.00, 500.0, 1000V	500.00m, 5.0000, 50.000, 500.00, 1000.0V	
Resistance	50.00, 500.0, 5.000k, 50.00k, 500.0k, 5.000M, 50.00MΩ	500.00, 5.0000k, 50.000k, 500.00k, 5.0000M, 50.000MΩ	
Current AC/DC	500.0µ, 5000µ, 50.00m, 500.0m, 5.000, 10.00A	500.00µ, 5000.0µA, 50.000m, 500.00m, 5.0000, 10.000A	
Frequency	6 Hz to 125 kHz	5.0000 Hz to 200.000kHz	
Capacitance	50.00n, 500.0n, 5.000µ, 50.00µ, 500.0µ, 9999µF	50.00n, 500.0n, 5.000µ, 50.00µ, 500.0µ, 9999µF	
Temperature	-50 °C to 1000 °C		Dual thermocouple -50 °C to 1000 °C
Data Recording	5400 Points	N/A	
Duty Cycle	N/A	0.1% to 99.99%	N/A

OPTIONAL ACCESSORIES	PART NUMBER
3000 A AC Flexible Clamp-on Attachment	ACF-3000 AK
1000 A TRMS AC/DC Clamp-on Attachment	A-1000
600 A AC/DC Clamp-on Attachment	CT-600 AC/DC
400 A AC Clamp-on Attachment	A400
Milli-Amps to 30 A AC/DC Clamp-on Attachment	CT-30
PC Interface kit (PC connection cable with software)	RS-232 KIT1
USB to RS-232 Adapter	RS-USB
Carrying Case	CC-ACDC

Heavy-Duty Multimeters

Choose from two heavy-duty digital multimeters that are designed for rugged use with extra features that make them better suited for field work. They offer extensive protection that will resist harsh and even abusive environments. Thicker case walls made from specialty plastics resistant to grease and chemical spills. They include rubber holsters, sealed and gasketed openings, shock-dampened mountings, extensive fusing and superior protection from overloads.

- IP67 rated for protection against dust and immersion
- Drop proof
- Highest input voltage in any meter to 1500 V DC, 1000 V AC
- Digi-Glo™ backlight (HD160C only)
- Oversized character displays for easy reading
- 30-minute auto power off to preserve battery
- Magne-Grip™ Holster
- Heavy-Duty test leads with threaded alligator clips
- Highest Safety acc. EN 61010, CAT IV/1000 V

The HD Series of DMMs is designed for professional use in harsh environments.

Both meters in the HD line have an extended voltage measurement capability of 1500 V DC and 1000 V AC, unmatched by any other line of digital multimeters. The extended voltage ranges can withstand transients up to 12 kV.

HD160C Autoranging True RMS heavy-duty meter

- True-RMS (TRMS), 10,000-count
- Relative Max/Min/AVG, Hold and Range Lock
- Digi-Glo™ backlight
- Temperature, Capacitance and Frequency

HD110C General purpose heavy-duty meter

- Data Hold

HD160C

HD110C

FEATURES	HD110C	HD160C
DC Voltage	200.0m, 2.000, 20.00, 200.0, 1500 V	1000.0 m, 10.000, 100.00, 1500.0 V
AC Voltage	200.0m, 2.000, 20.00, 200.0, 1000 V	1000.0 m, 10.000, 100.00, 1000.0 V
Current AC/DC	200.0µ, 2.000m, 20.00m, 200.0m, 2 A	100.00µ, 1000.0µ, 10.000m, 100.00m, 400.0m, 2.000A
Resistance	200.0, 2.000k, 20.00k, 200.0k, 2.000M, 20.00 MΩ	1000.0, 10.000k, 100.00k, 1000.0k, 10.000M, 40.00MΩ
Diode	Yes	N/A
Continuity	Yes	
Frequency	N/A	100.00, 1000.0, 10.000k, 100.00k, 1000.0k, 10.000MHz
Capacitance	N/A	40.00µf, 400.0µf, 4.000µf, 40.00µf, 400.0µF
Temperature	N/A	-20 °C ~ 1300 °C

Impulse Reflectometer

TDR-400 Impulse Reflectometer

The TDR-400 is a handy, light impulse reflectometer, processor controlled, with LCD display for check and locate faults in telecommunication and power cables.

Measuring principle:
The measuring pulse fed into the cable will reflected by in homogeneity of the cable impedance (cable faults) and showed on the display. The distance and the kind of the fault can be determined out of the shape and the time setting of the reflection (Practical experience can be obtained by test measurements). If the cable is terminated with a resistance equal to the impedance of the cable, no reflexion occurs when the cable is faultless. In the case of breaks, contact faults in sleeves, short circuits or taps/splitter in the sector to be tested, the distance to the cable beginning can be determined by the pulse echo. If wide pulses are used for the measurement, the echoes are stronger, but faultless taps/splitter cause then strong echoes.

Propagation factor
The Propagation factor (nvp-value) declares the velocity of electrical signals in the cable in relation to the speed of light. The propagation factor of the cable under test must always preset before the length measurement. If the propagation factor is unknown, a approximate value is set and the fault is determined from both ends of the cable.

FEATURES	TDR-400
Measuring range	0 - 2000 m
Resolution	0.25 m, 0.5 m, 1 m, 4 m
Accuracy	0.2 % of the measuring range
Propagation factor	0.25 to 0.999
Storage places	10 for propagation factor
Dynamics	44 dB
Impedance	75 Ohm
Output	F-socket
Output pulse	4 V/5 ns or 100 ns
Operating	with 3 keys
Display	LCD display, 120 x 32 pixel, illuminated
Power supply	NiMH accumulator 6 V/ 700 mAh (5 x R3),
Power consumption	80 mA

Advanced Wire Tracers

AT-2001, AT-2002, AT-2003, AT-2004, AT-2005 Advanced Wire Tracers

- Five models to choose from
- Traces live wires buried or hidden behind walls up to approx. 2.5 m deep
- Performs tests without having to interrupt power
- Locates and traces wires in walls, floors, conduit, computer cables, etc.
- Does not interfere with sensitive electronic equipment
- Traces unenergized and open (broken) wires
- Locates breakers, neutral & ground lines
- Pinpoints shorts, ground faults & broken wires

FEATURES	AT-2001	AT-2002	AT-2003	AT-2004	AT-2005
Traces energized wires without power interruption. Locates breakers without power interruption.	9-300V (S-2300 Transmitter)	9-600V (S-2600 Transmitter)	N/A	9-600V (S-2600 Transmitter)	9-600V (S-2600 Transmitter)
Traces unenergized wires (wire continuity and wire grounded at the end). Pinpoints shorts & ground faults.	S-2300 Transmitter & 9V batteries	S-2600 Transmitter & 9V batteries	N/A	S-2600 Transmitter & 9V batteries	S-2600 Transmitter & 9V batteries
Traces unenergized open wires (broken or disconnected wire). Pinpoints place where wire is broken.	N/A	N/A	T2200 Transmitter	T2200 Transmitter	T2200 Transmitter
Supplied with Battery. Booster to strengthen signal for open tracing.	N/A	N/A	NO	YES	YES
Supplied with clamp-on attachment to inject signal without making a contact with bare wire.	N/A	N/A	NO	NO	YES

KIT CONTAINS:	AT-2001	AT-2002	AT-2003	AT-2004	AT-2005
Receiver R-2000	•	•	•	•	•
Transmitter S-2300 (9-300V)	•				
S-2600 Transmitter 9-600V		•		•	•
T-2200 Transmitter for open tracing			•	•	•
Clamp-on Transmitter Accessory A2201CE				•	•
Rechargeable Battery Pack B2024					•
Battery Pack Recharger B2025					•
Test leads & accessories	•	•	•	•	•

Amprobe's first tier advanced circuit tracer for basic applications where accuracy and routine troubleshooting are important.

AT-1000 Advanced Tracer

- Trace energized lines up to 300 VAC or VDC
- Trace unenergized & open conductors
- Identifies breakers and fuses without powering down
- Locates shorts
- Identifies wires in a bundle
- Identifies control, alarm and telephone system wiring
- Traces coaxial cable shield
- Receiver range 0.30 to 1 meter from a cable being traced

ATGC-1 Ground Coil Accessory

- Traces and locates buried conductors like Highway Lighting Conductors, Main Electrical Feeds, Water Mains, and Telephone Lines
- Eliminates direct connection of transmitter
- No access to the conductor required

Breaker Tracer

The ECB50A* is a microprocessor driven tracer that allows three types of troubleshooting: circuit breaker identification, wire tracing in walls, and wire sorting. The included transmitter module generates a custom coded signal that is injected into a powered AC line. The microprocessor-enabled receiver wand uses this encoded signal to reject noise and correctly identify the right circuit breaker or wire.

ECB50A* Three types of troubleshooting with one tool

- Three Testers in one
- Identify circuit breaker to electrical socket
- Trace AC cables in walls
- Sort AC wires in a bundle
- Audible and visual indicators
- Includes sensitivity adjustment
- Tracing (function fuse) approx. 0...10 cm
- Tracing (function cable) approx. 0...40 cm
- Safety acc. EN 61010, CAT III/300 V
- Socket type UK and Schuko available

*ECB50A-FGIS Euro connector version. ECB50A-E UK connector version.

FEATURES	SPECS
Transmitter Voltage range	100 V to 250 VAC
Frequency range	50 to 60 Hz

Multifunction Installation Testers

Genius 5035
Multifunction Installation Tester

Genius 5035 is a multifunction tester for installation testing acc. to IEC 60364, DIN VDE 0100, ÖVE E 8001, NIN/NIV, 16th Edition. With the Genius multifunction installation tester you can perform following measurements:

- Insulation resistance EN 61557-2 100 V, 250 V, 500 V, 1000 V DC
- Line and loop impedance EN 61557-3 and prospective short circuit current
- Low resistance measurement EN 61557-4 with > 200 mA DC
- RCD-Analysis EN 61557-6
  Measurement of tripping time, tripping currrent, touch leakage voltage Ub with and without RCD tripping
- Measurement of earth resistance EN 61557-5 without causing RCD tripping
- Phase Rotation EN 61557-7
- Frequency and Voltage Measurement

For detailed specifications, see table GSC 53A on page 34 and 35

Combi Test 2019
Multifunction Installation Tester

- For fast and easy testing of electrical installations acc. IEC 60364, DIN VDE 0100, ÖVE E 8001, NIN/NIV, 16th Edition
- Compact, safe and reliable
- Large and clearly arranged 3 1/2 LCD Display (64 x 64 mm)
- Timer function and limit value adjustment
- Integrated IR RS-232 interface
- Internal memory for 350 measuring values
- Auto power off
- Integrated rubber holster
- Safety: EN 61010, CAT III/600 V
- Low Ohms measurement with 200 mA DC (EN 61557-4)
- Insulation resistance with 50, 100, 250, 500 or 1000 V DC (EN 61557-2)
- Complete RCD testing and analyse function (EN 61557-6)
- Line and loop impedance and current (Zi, Zs) (EN 61557-3)
- Display of short circuit curent Ik (EN 61557-3)
- Fault loop impedace without RCD tripping
- Phase sequence measurement (EN 61557-7)

Function	Range	Resolution
Low ohms measurement	0,01 ÷ 19,99 Ω	0,01 Ω
	19,99 ÷ 99,99 Ω	0,1 Ω
Insulation measurement 50 V, 100 V, 250 V, 500 V and 1000 V DC	0,01 MΩ ÷ 19,99 MΩ	0,01 MΩ
	20 MΩ ÷ 199 MΩ	0,1 MΩ
	200 MΩ ÷ 1999 MΩ	1 MΩ
FI (RCD) tripping time	adjustable test current IΔN: 10, 30, 100, 300, 500 mA	1 ms
	tripping time (max. Range) 0 ÷ 9,99 Ω	
FI RCD) tripping current	(0,5 ÷ 2,0) x IΔN	10 % IΔN
FI (RCD) Ra	0 ÷ 2 kΩ/Itest =1/2 IΔN	1 Ω
FI (RCD) Ub	25 or 50 V touch current	1 V
Line/Loop impedance (Zs, Zi)	0,01 ÷ 19,99 Ω	0,01 Ω
	20,00 ÷ 199,9 Ω	0,1 Ω
	200,0 ÷ 2000 Ω	1 Ω
	Test current Itest 0 4 A (80 ms) at 110 V, 6 A (40 ms) at 230 V, 11 A (40 ms) at 400 V	
Short circuit current Ik	1 A ... 1 kA ... 10 kA	1 A and 1 kA
Loop impedance without RCD tripping	1 ÷ 1999 Ω	1 Ω
Frequency measurement	15,3 ÷ 99,9 Hz	0,1 Hz
Phase sequence and voltage measurement	110 ÷ 440 V	1 V
RS 232 interface	optoinsulated serial output	
Memory locations	350	
Power supply	6 x 1,5 V Type AA for appr. 500 insulation measurements	
Weight	appr. 990 g	
Auto off	10 min	
Safety class, standards	EN 61010-1, CAT III 600 V, all measurements according to VDE 0413 (EN 61557) part 1, 2, 3, 4, 6 and 7	
Standard accessories	incl. carrying case, test leads with Shuko plugs, 3 alligator clips, 3 safety-test leads with banana jack, software (Eurolink 2000), memory, RS232 cable, manual, calibration certificate and batteries.	

TELARIS 0100-PLUS
Multifunction Installation Tester

- Loop resistance measurement up to 265 V
- Line resistance measurement up to 440 V
- Prospective short circuit current measurement
- RCD measurements (contact voltage, trip time, trip current - ramp method)
- Low Ohm measurement
- Insulation measurement with 100, 250, 500 V
- Voltage and frequency measurement
- Rotary field test
- Integrated memory for approx. 500 measurement values
- Standard, built-in IR RS-232 interface for transferring measurement data to the PC
- Software es control for recording test results is available as option
- Integrated socket test with contact electrode to enable the user to quickly establish incorrectly installed sockets and/or protective conductor failures
- Clear and large LCD providing the user with an optimum visual indication of both test values and limits
- Auto power off
- Measurement of loop resistance and prospective short circuit current measurement without tripping the RCD

FEATURES		
Display	LCD, 3½-digit, 1999 Digits Measurement Ranges	Resolution
Voltage	1...440 V	1V AC/DC
Frequency	10...99,9 Hz	0,1 Hz
Loop Impedance	0,15…19,99./199,9/1999 Ω	0,01/0,1/1 Ω
Prospective Short Circuit Current Input Voltage Range Test Current **Line Resistance**	 0,10 A...1,7 kA 195...264 V 50/60 Hz approx. 4,6 A (at 230 V) 0,15…19,99Ω/199,9/1999 Ω	 0,01A...0,1 kA 0,01/0,1/1 Ω
Prospective Short Circuit Current Input Voltage Range Test Current **Loop Resistance (without tripping the RCD)**	 0,10 A...2,7 kA 195...440 V 50/60 Hz approx. 4,6 A (at 230 V) 0,5...19,99Ω/199,9/1999 Ω	 0,01A...0,1 kA 0,01/0,1/1Ω
Prospective Short Circuit Current Input Voltage Range Test Current **Insulation Resistance** Test Voltage **Low Ohm Measurement** Test Current	 0,50 A...0,5 kA 195...264 V 50/60 Hz approx. 5 mA (at 230 V) 0,05...19,99/199,9 MΩ 100, 250, 500 V DC 0,05...19,99/199,9/1999 Ω > 200 mA DC	 0,01A...0,1kA 0,01/0,1 MΩ 0,01/0,1/1 Ω
RCD-Test Nominal currents selective: Measurement Functions Contact Voltage Earth Resistance Tripping Time Tripping Current	10, 30, 100, 300, 500mA 0,5 x 30mA, 5 x 30mA 100, 300, 500mA Contact voltage, trip time, Tripping current test with ramp method 1...63 V 10…1999 Ω/19,99 kΩ 1...500 ms 40...140% of IΔN (in 10% steps)	 1 Ω/0,01 kΩ 1 ms
Rotary Field Test Input Voltage Range Data memory Interface Safety complying with Measurement category Pollution Degree Protection Degree Power Supply	 100...440 V 50/60 Hz approx. 500 values IR-RS-232 IEC61010, EN61010, DIN VDE 0411/ IEC61557, EN61557, DIN VDE 0413 CAT III/440V 2 IP 40 6 x 1,5 V, IEC LR6	

RCD Analyser

TELARIS RCD-TEST
RCD Analyser

- Swift and easy test of RCDs (also time delayed types)
- Measurement of contact voltage without tripping the RCD
- Measurements of trip time and trip current – ramp method
- RCD analysis for test of all RCD parameters
- Display of earth resistance
- Integrated memory for approx. 100 measurement values
- Standard, built-in IR/RS-232 interface for transferring measurement data to the PC
- Software es control for recording test results is available as option
- Curve shape to be selected for RCDs of Type AC, A, B
- Test current for pre-selection x 0.5 / x 1 / x 2 and x 5
- Integrated socket test with contact electrode to enable the user to quickly establish incorrectly installed sockets and/or protective conductor failures
- Clear and large LCD providing the user with an optimum visual indication of both test values and limits
- Auto power off

FEATURES	TELARIS RCD-TEST
Display	3½ digit, LCD, 1999 Digits Measurement ranges / Resolution
Nominal test current	10 / 30 / 100 / 300 / 500mA/ 1 A time delayed: 100mA/ 300mA/ 500 mA / 1 A
Contact voltage	0.6...70 V / 0.1 V
Tolerance	(-0%...+10%) + 6 Digits
Trip time	2...1999 ms / 1 ms
Tolerance	±(2%+2 Digits)
Test current type	AC, DC, DC pulse
Earth resistance	0.01...1999 Ω / 1 Ω
Tolerance	±(10%+10 Digits)
Mains voltage	230 V +10% / -15%
Data memory	approx. 100 measurements
Interface	IR/RS-232 interface-adapter
Protection class	II (double insulated)
Safety complying with	IEC61010/EN61010/DIN VDE 0411 IEC61557/EN61557/DIN VDE 0413
Measurement category	CAT III / 300 V
Pollution degree	2
Protection degree	IP 50
Power supply	6 x 1.5 V, IEC LR6

Loop Resistance Tester

TELARIS LOOP-TEST
Loop Resistance Tester

- Measurement of loop resistance and prospective short circuit current measurement without tripping the RCD
- Line resistance and prospective short circuit current measurement
- Enables the user to measure each conductor resistance independently: PE resistance, phase resistance and neutral resistance
- Voltage and frequency measurement
- Integrated memory for approx. 250 measurement values
- Standard, built-in IR/RS-232 interface for transferring measurement data to the PC
- Software es control for recording test results is available as option
- Integrated socket test with contact electrode to enable the user to quickly establish incorrectly installed sockets and/or protective conductor failures
- Pre-selection of max. admissible contact voltage
- Clear and large LCD providing the user with an optimum visual indication of both test values and limits
- Auto power off
- Patented measurement principle of loop resistance and prospective short circuit current measurement without tripping the RCD

FEATURES	TELARIS LOOP-TEST
Display	3½ digit; LCD; 1999 Digits Measurement range / Resolution / Tolerance
Loop impedance	0.05...1999Ω/0.01...1Ω/±(5%rdg.+5 Digits)
Line resistance	0.05...19.99Ω/ 0.01/±(5% rdg.+ 5 Digits)
Resistance neutral connector	0.05...19.99Ω/0.01/±(5% rdg.+ 5 Digits)
Resistance earth connector	0.05...1999Ω/0.01...1Ω/±(5%rdg.+5Digits)
Resistance phase connector	0.05...19.99Ω/0.01/±(5% rdg.+ 5 Digits)
Prospective short circuit current	1 A...4.6 kA / 1 A,10 A
Voltage	0...300 V / 1 V /±(3% rdg.+3 Digits)
Mains frequency	10...200 Hz/0.1 Hz/±(1% rdg.+ 2 Digits)
Contact voltage	25 V / 50 V (selectable)
Data memory approx.	250 Meas. values
Interface	IR / RS-232 interface-adapter
Protection class	II (double insulated)
Safety complying with I	EC61010/EN61010/ DIN VDE 0411 IEC61557/EN61557/DIN VDE 0413
Measurement category	CAT III / 300 V
Pollution degree	2
Protection degree	IP 50
Power supply	1 x 9 V, IEC 6LR61

Insulation Resistance Testers

Model AMB-45 and AMB-25 have three selectable test voltages testing insulation, plus the AMB-45 has a built-in voltmeter and programmable timer and internal memory of 99 data points.

AMB-45 Digital Insulation Resistance Tester

- Tests insulation of wires, cables, transformers and motors
- Comes as a complete kit including test leads & PC software
- Three selectable test voltages up to 1000V
- Built in voltmeter
- Sensitive Ohmmeter for checking resistance of motor windings
- Programmable timer to perform the Dielectric Absorption Ratio Test
- Internal memory, 99 datapoints
- Data download to PC
- Safety acc. EN 61010, CAT III/600 V

CAT III 600V c UL us

AMB-25 Digital Insulation Resistance Tester

- Test insulation of wires, cables, transformers and motors
- Selectable test voltages up to 1000V
- Button Lock for Dielectric Absorption Ratio Test
- Sensitive Ohmmeter for checking resistance of motor windings
- Internal memory (stores 9 readings)
- Comes as a complete kit including test leads
- Safety acc. EN 61010, CAT III/600 V

CAT III 600V

FEATURES	AMB-45	AMB-25
Insulation resistance (250 VDC)	4.000, 40.00, 400.0, 4000MΩ	40.00, 400.0MΩ
Insulation resistance (500 VDC)	4.000, 40.00, 400.0, 4000MΩ	400.0, 1000.0MΩ
Insulation resistance (1000 VDC)	4.000, 40.00, 400.0, 4000MΩ	400.0, 2000.0MΩ
Resistance (9V)	N/A	999.9 Ω
Low Resistance	400.0, 4000 Ω	N/A
Voltage AC/DC	600.0V	N/A

TELARIS ISO-PRO Insulation Tester

- Insulation measurement
- Low Ohm measurement
- Voltage measurement
- Integrated memory for approx. 500 measurement values
- Standard, built-in IR RS-232 interface for transferring measurement data to the PC
- Software es control for recording test results is available as option
- Pre-setable limit values for insulation measurement
- Test lead compensation function for exact zero adjustment
- Additional analogue bargraph for insulation measurement
- Clear and large LCD providing the user with an optimum visual indication of both test values and limits
- Backlight
- Auto power off
- Adjustable measurement value timer allows measurements over a longer time period
- Test of trip voltage of overvoltage protection devices
- Insulation measurement of floor and wall resistance

CAT III 600V

FEATURES	TELARIS ISO-PRO
Display	LCD, 3½ digit, 1999 Digits with Bargraph Measurement range / Resolution
Insulation resistance	0.005...1.999 MΩ / 1 kΩ 2...19.99 MΩ/10 kΩ, 20...199.9 MΩ / 100 kΩ, 200...1999 MΩ/1MΩ
Test voltage	100/250/500/1000 V DC
Voltage	0...500 V AC/DC/1 V
Timer function	0, 10, 30, 180 s (selectable)
Voltage Protection level	10...1000 V DC 6...625 V AC / 0…1000 V DC
Test current	approx. 1mA
Low Ohm measurement	0.03...19.99 Ω/0.01 Ω
Test current	> 200mA
Memory	approx. 500 Values
Interface	IR/RS-232 Interface adapter
Safety complying with	IEC 61010/EN 61010/ DIN VDE 0411/IEC 61557/EN61557/DIN VDE 0413
Measurement category	CAT III/600 V
Pollution Degree	2
Protection Degree	IP 50
Power Supply	6 x 1.5 V, IEC LR6

CAT III 600V

ISO-PLUS-A
Insulation Tester & TRMS Multimeter

Universal insulation measuring instruments for testing electrical equipment, devices, cables, machines in electrical workshops and industry.

- Easy to use handheld design measuring V, Ω, MΩ, Hz, A (mA)
- Large dual display with bright EL backlight and bargraph
- Advanced safety features including live circuit protection without fuse damage, test lock out and auto discharge after test
- Fully compliant with all European standards for insulation testing
- Insulation measurements up to 20 GΩ with 100, 250, 500 and 1000V test voltages and display of test current
- On screen display of Polarisation Index and Dielectric Absorption Ratio for insulation quality
- Auto ranging resistance measurement to 200kΩ with a selectable 200mA or 50mA low resistance test lead compensation
- Continuity test with adjustable thresholds, fast-responding buzzer and visual indicator (buzzer can also be de-activated)
- True RMS voltage measurement with display of AC, DC and AC+DC values and mV resolution
- Leakage current measurement directly or with LEM current probes in current ranges from 200 µA to 200A
- LIMIT (adjustable alarm) to quickly and reliably identify fault conditions
- REC function for MIN, MAX, AVG values
- ZERO (REL) function to compensate measuring leads and for relative measurements
- Safety acc. EN 61557-2, -4, EN 61010, CAT III / 600V

General	
Display	1999 digit dual LCD with special symbols, digit height 17 mm, 30 segment analogue bar with over/ underflow and special display symbols, EL backlight
Protective type	IP40 according to EN 60529
External voltage	Measurement inhibited for external voltage Ux >10% of UN for MΩ and >3V for Ω
Max. overload	800 V eff RMS or RMS x frequency < 5x104 VHz
Auxiliary power	4 x 1.5 V mignon cells alkali-manganese(IEC LR6)
MΩ - RISO Insulation Resistance	
Method	Voltage/current measurement as per EN 61557–2
Nominal test voltage	UN = 100V, 250V, 500V, 1000V DC
Open circuit voltage	U0 < 1.1 x UN
Nominal current	IN ≥ 1mA DC at UN IN ≥ 2.5mA DC at 100kΩ at 250V
Short circuit current	<10mA DC
R – Low Resistance Measurement	
Method	Voltage/current measurement as per EN 61557–4
Open circuit voltage	U0 ≥ 4V
Short circuit current	Ik ≥ 200mA DC up to 2Ω as per IEC 61557

5000V Insulation Testers

Rugged design for 5000 Volt applications but delicate features to ensure proper testing and recording of insulation measurements. Both the AMB-5KVD and AMB-5KV offer a built-in voltmeter. The AMB-5KVD goes further with numerous test voltage increments for testing insulation as well as internal memory and programmability.

AMB-5KVD
Digital 5 kV Insulation Resistance Tester

- Tests insulation of wires, cables, transformers, motors and generators
- Comes as a complete kit including test leads and PC software
- Built in automatic voltmeter up to 5000V warns against hazardous energized systems
- Programmable setups of test voltages and timers
- Performs the dielectric absorption ratio test
- One testing instrument for low and high voltage systems
- Internal memory, measurements can be stored for future reference
- Data download to PC
- Rugged, durable case

AMB-5KV
Analog 5 kV Insulation Resistance Tester

- Tests insulation of wires, cables, transformers, motors and generators
- Test voltages 500, 1000, 2500, 5000 VDC
- Measuring range 500K thru 500G ohms
- Built-in voltmeter 0 – 600Volts
- Lock feature applies testing voltage continuously for Dielectric Absorption Ratio Test
- Automatic discharge of equipment capacitance for operator safety

FEATURES	AMB-5KVD	AMB-5KV
Insulation resistance (500 VDC)	100 k to 100 GΩ	500 k to 100 GΩ
Insulation resistance (1000 VDC)	100 k to 250 GΩ	500 k to 250 GΩ
Insulation resistance (250 VDC)	100 k to 500 GΩ	500 k to 500 GΩ
Insulation resistance (5000 VDC)	100 k to 500 GΩ	500 k to 500 GΩ
Voltage AC/DC	500, 5000 V	600.0 V

Download Suite Software Package

Download Suite is a software package compatible with the Amprobe instruments with download capabilities.

- Install software once and use it with various Amprobe products
- Download Suite features one installation and download package for all supported Amprobe Products
- One file format - all instruments share the same file format. You can open files recorded by you, other people, or even other Amprobe instruments right on your PC
- Download Suite automatically checks your version for upgrades and keeps your version current.

The software es control support the following products:

- AMB-45
- AMB-5KVD

Available in English only.

es control, es control PROF (professional)

Software for Reporting of Installation and Machinery Tests

- Comfortable, extensible software for administration and reporting of installation and machinery tests
- Clear and logic hierarchy
- Directory structure, easy to handle (customer, site, department, UUT, Test), is always visible
- Measurement data transfer from test instrument to PC
- Print of test reports
- Export function for listings in text or Excel format
- New data records for UUT will be automatically created. Test results can be printed out quickly and easily

Special Features (es control PROF only)
- Administration of user authorisation for four different user groups
- Comparision and update of different es control databases
- Evaluation of test result for installation test

Software in three modules avaliable:
- **Module „es control INST"** for reporting and documentation of installation tests in compliance with EN 60364, DIN VDE 0100/0105, ÖVE E 8001, NIN/NIV, 16th Edition
- **Module „es control PAT"** for reporting and documentation of machinery and appliance tests in compliance with EN 60204, DIN VDE 0701/0702, ÖVE E8701
- **Complete package „es control COMPL"** for reporting and documentation of installation, machinery and appliance tests

Free demo version available

The software es control support the following products:
- Genius 5035
- TELARIS 0100-PLUS
- TELARIS RCD-TEST
- TELARIS ISO-PRO
- TELARIS LOOP-TEST
- ALLTEST

CAT III 300V CAT II 600V

Earth Resistance Testers

Ensure safe operation and reduce power quality problems with Amprobe earth resistance testers. Use the DGC-1000A for earth loop resistance checks.

DGC-1000A Earth Resistance Clamp Meter

- TRMS current measurement including leakage current
- Earth loop resistance range 0.025 to 1500 Ω
- Data logging capability - 116 records
- Individual data point recording
- User selectable High & Low ohm audible alarms
- Simple and easy to use, no test leads or auxiliary electrodes necessary
- Jaw opening 23 mm
- Safety acc. EN 61010, CAT III/300V, CAT II/600 V

FEATURES	DGC-1000A
Earth Resistance	0.025Ω - 1500Ω
AC Current	0.2A - 30.00A

TELARIS EARTH-TEST
Earth Resistance Tester

- Earth resistance measurement
- Specific earth resistance measurement
- The integrated constant current measurement principle allows the application in sandy as well in rocky environments
- Monitoring and display of auxiliary earth and probe resistances
- Displays of the actual test current
- Automatic and manual and frequency selection for noise reduction
- Test voltage preselection
- Clear and large LCD providing the user with an optimum visual indication of both test values and limits
- Auto power off
- Earth resistance measurement 2/3 and 4-pole
- Specific earth resistance measurement in compliance with the Wenner principle

FEATURES	TELARIS EARTH-TEST
Display	3 digit; LCD; 1999 Digits
Meas. principle Meas. range / Resolution	Current-voltage measurement
Earth resistance	0.05...19.99 Ω / 0.01 Ω 20...199.9 Ω / 0.1 Ω 200...1999 Ω / 1 Ω
Tolerance	±(4% rdg.+2 Digits / 0.1Ω)
Probe/aux. resistance	0.1...50 kΩ / 0.1 kΩ
Tolerance	±(10% rdg.+3Digits)
Test current display	0.1...13 mA / 0.1 mA
Tolerance	±(10% rdg.+3 Digits)
Max. test current	approx. 12 mA

FEATURES	TELARIS EARTH-TEST
Test voltage	max. 25 V / 50 V AC selectable
Frequency	127 Hz / 140 Hz selectable
Protection class	II (double insulated)
Safety complying with	IEC61010/EN61010/DIN VDE 0411 IEC61557/EN61557/DIN VDE 0413
Measurement category	CAT III / 300 V
Pollution degree	2
Protection degree	IP 50
Auto-Power-Off	after approx. 5 min.
Power supply	6 x 1.5 V, IEC LR6

Machinery Tester

ALLTEST
Machinery Tester acc. EN 60204-1

- Insulation measurement 500 V DC
- Continuity testing (10 A AC), resistance and voltage drop
- Continuity testing, 6 V AC/10 - 25 A AC
- Withstanding voltage to 4000 V
- Leakage current 0 - 50 mA
- Residual voltage measurement
- PC interface (RS-232) + protocol software
- Specification of limit value
- Acoustic signal for „OK", „Fault" and „Warning"
- 700 memory locations
- Rugged waterproof case
- Safety acc. EN 61010, CAT III/600 V

Technical data according to EN 60204-1	Range (Resolution)	Test voltage	Test current	Test time	comments
Withstanding + burn funcion (BURN)	1kV 0-4kV	1000V AC 0-4000V AC	0,5-500mA	1s to 10min	Display of test voltage and leakage current, power 500 V A
Leakage current	0-50mA (0,1mA)			1s to 10min	for VDE 0702
Insulation	0-99,99MΩ (10kOhm)	500V DC	2,2mA	1s to 10min	Possibility to adjust a limit value
Continuity Voltage drop measurement	0-1 Ω (0,001 Ω) 0-10V (0,01V)	12V AC or 6V AC 6 V AC	>10A or >10<25A AC*	1s to 15s	For testing the voltage drop, the wire gauge ist selectable: 1-1,5-2,5-4 and >6mm2
Residual voltage measurement internal and external	0-10,0s	limit value 60V			limit value 1 s resp. 5 s adjustable

Memory	700 memory locations
Case	rugged weatherproof case
Power supply	**External power supply 230 V AC / 50 Hz**
Standard Accessories	Cable for measurment of voltage stability, 1 pistol and 1 alligator clip, cable for insulation measurement, cable with 4 alligator clips for low ohms measurement, protokol software and interface cable to connect ALLTEST and PC, calibration certificate

CAT III 600V

VP-440

Non-Contact VoltProbes®

Designed for safety and limited troubleshooting without the expense. Fits conveniently in a shirt pocket, tool belt, or pouch.

VP-440RT Non-Contact VoltProbe

- Locating of circuit breakers
- Voltage range: 110 - 600 V AC
- Locating of defective fuses
- No disconnection of electrical system necessary
- Uses non-contact method of Voltage testing
- Test for AC Voltage cables, wall sockets, junction boxes, etc.

VP-600SB Non-Contact VoltProbe

- Detect AC Voltage (100 - 600 V)
- Use non-contact method of Voltage testing
- Totally insulated, no exposed metal or conductive parts
- Check for AC Voltages without necessity of disconnecting the electrical system
- Test for AC Voltage cables, circuit breakers, wall sockets, junction boxes, fuses, etc.
- Safety acc. EN 61010, CAT III/600 V

FEATURES	VP-440	VP-600SB
AC Voltage Detection	100 - 600 V	
Indicator	Lights	Lights, Beeps and Vibrates

VT201A Non-Contact Voltage Detector

- Quickly check for the presence of AC voltages, with no electrical contact
- Safe non-contact detection of voltages from 70 V to 440 V AC
- Both visible and audible indicators
- Detector emits loud audible chirping
- Bright flashing LED
- On/Off button beep confirms unit and batter is working

MT-1000L Non-Contact Magnetic Tester

- Non-contact magnetic field tester with torch function
- Build-in magnetic field sensor enables magnetic fields to be detected
- The test tip lights up immediately without any metal contact as soon as a magnetic field is detected
- The test lamp reacts to all magnetic fields in three-phase current, direct current and permanent magnets
- Testing of Solenoid Valves
- Ultrabright LED
- incl. Test Magnet and Batteries

Voltage & Continuity Testers

Multitest Sigma
Voltage and continuity tester with phase rotation

- 12 V to 690 V AC & DC voltage range
- Continuity test (optical + sound)
- Phase rotation test
- Polarity indication
- Phase testing
- Data Hold function
- 30 mA RCD trip test
- Undetachably tip protection
- IP65 water jet and dust tight protection
- Safety acc. EN 61010, CAT III/600 V

Digital Ohm
Digital Voltage and continuity tester with phase rotation

- LCD Display with backlight
- 12 V to 690 V AC & DC voltage range
- Continuity test (optical + sound)
- Phase rotation test
- Polarity indication
- Phase testing
- Data Hold function
- 30mA RCD trip test
- Automatic Backlight
- Undetachably tip protection
- IP65 water jet and dust tight protection
- Safety acc. EN 61010, CAT III/600 V

Phase Sequence

Phase sequence testing is crucial for some of the three-phase loads, whenever they need to be connected to the electrical system. Improper connection of three-phase motors may lead to reverse rotation, and as a result it may damage equipment powered by a motor. Amprobe's Phase Sequence and Motor Rotation Tester is used to assure used to assure proper and safe connection of the electrical equipment on three-phase systems.

PRM-3 Phase Sequence & Motor Rotation Tester

- Phase sequence indication of the three phase electrical systems
- Check for normal or reversed phases
- Three phase motor rotation indication
- Phase voltage loss or voltage sag indication
- Safety acc. EN 61010, CAT III/600 V

Specialty Probes

These two logic probes troubleshoot and analyze most digital logical circuits. The LP10A logic probe is used for most types of TTL and CMOS circuits. The LP25A logic probe tests more types of digital circuits. Both probes detect pulses of more than 30 ns.

The HV231-10A is a high voltage probe designed to extend the voltage measuring capability of an AC/DC voltmeter. The probe is to be used to make measurements on energy limited circuits within equipment. Examples include high voltage within televisions or photo copy machines.

LP10B, LP25B Pen-size logic probes

- Troubleshoot and analyze digital logic circuits

LP10B: Evaluates most common circuits. Detects pulses>30 ns up to 17 MHz, TTL, CMOS levels and dual LEDs indicate hi/lo state.

LP25B: Increased frequency range. Detects Pulses>30 ns up to 25 MHz, TTL, CMOS, DTL, RTL, NMOS, MOS Logic, dual LEDs and tone indicate hi/lo state.

HV231-10A High voltage probe

- Extended voltage measuring to 40 kV
- Use with standard multimeters with 10 MΩ input impedance
- For measurements on energy limited circuits

Power Quality Recorder

PQ55A
Handheld power analyzer for three-phase power system measurements

The PQ55A offers real time monitoring, recording and analysis of three phase power systems. The complete set includes the handheld mainframe, four current clamp adaptors, test leads with alligator clips, RS232 cable and software CD, large soft carrying case with compartments and users manual.

- Comprehensive real time monitoring, recording and analysis of three phase power systems
- True-RMS voltage and current measurement
- Power Factor and phase angle results
- Power Analysis (apparent, active and reactive power)
- Additional current clamp for neutral line monitoring
- Internal memory for 99 single measurement storage
- Opto-isolated RS232 interface for further analysis and charting
- 50 Hertz operation facilities

CAT III 600V

FEATURES	PQ55A
Voltage measurement	600 Vrms
Current measurement	Input I1, I2, I3 999.9 A
Input	I4 250 A
Clamp opening	40 mm
Active power (P)	999.9 kW
Apparent power (S)	999.9 kVA
Idle power (Q)	999.9 kVAr
Phase angle (f)	0 ° to 90 °
Frequency measurement	45 to 80 Hz
Harmonics measurement (Using PC)	up to the 31st harmonics
Active power (kWh)	119.3 MWh
Apparent power (kVAh)	119.3 MVAh
Idle power (kvarh)	119.3 Mvarh
Data logger	512 kb, non-volatile memory
Sampling rate	5 s, 30 s, 1 min, 2 min (adjustable)
Safety acc.	EN 61010, CAT III/600 V

CAT III 600V

Power Quality Analyzers

ENERGYTEST 2020 E
Handy 3-Phase Power Analyzer

ENERGYTEST 2020 E is a three-phase power analyser and recorder capable of carrying out a complete analysis of voltages, current and related harmonics, active and reactive powers as well as active and reactive energies. It also permits to analyse the voltage and current harmonic components to check and possibly solve all the problems related to the harmonic presence.

- Energy measurement
- Power measurement
- Harmonics up to 49th
- Incl. 2 MB memory for long self-powering recording
- Accuracy class 2 according to EN 61036 Safety acc. EN 61010, CAT III/600 V
- Current range 5 mA to 3000 A, depending on used clamp adapter.

Perfect for monitoring computer and power systems as well as:

- Testing of the delivered energy
- Testing of the voltage quality
- Testing and securing a clean operation, e.g. in hospitals or production facilities

Note: only available in English or German language.

Voltage and current measurement

Function	Range (V)	Resolution (V)	Input impedance	Overload protection
Voltage measurement	300, 600 (Autorange)	0.2	300 kOhm	900 V (1 min.)
Current measurement	1	0.001	100 kOhm	5 V

PF measurement

Function	PF	Resolution
PF measurement	0.2	0.01 digits
	0.5	0.01 digits
	0.8	0.01 digits

Harmonic measurement

Function	Range	max. resolution
Harmonic measurement	DC - 25. harmonic	0.1 V/0.1 A
	26 - 33. harmonic	0.1 V/0.1 A
	34 - 50. harmonic	0.1 V/0.1 A

Power measurement

Function	Range	Resolution
Active power	0 - 999.9 W 1 kW - 999.9 kW 1 MW - 999.9 MW	0.1 W 0.1 kW 0.1 MW
Reactive power	0 - 999.9 VAR 1 kVAR - 999.9 kVAR 1 MVAR - 999.9 MVAR	0.1 VAR 0.1 kVAR 0.1 MVAR
Apparent power	0 - 999.9 VA 1 - 999.9 kVA 1 - 999.9 MVA	0.1 VA 0.1 kVA 0.1 MVA
Active energy (Class 2 IEC 1036)	0 - 999.9 WH 1 - 999.9 kWH 1 - 999.9 MWH	0.1 WH 0.1 kWH 0.1 MWH
Reactive energy (Class 3 IEC 1268)	0 - 999.9 VARH 1 - 999.9 kVARH 1 - 999.9 MVARH	0.1 VARH 0.1 kVARH 0.1 MVARH

ENERGYTEST 2020 E is equipped with 2 MB memory. The selected recording rate (5 sec. to 60 min.) and the amount of selected channels (1-64 signals) determine the maximum recording time. Example: With an interval of 10 s and 5 selected parameters the max. recording time is 4 days and 8 hours. With an interval of 1 min. the recording time is 26 days. This includes up to 35 recordings/measurement that can be stored

GSC-53 A
3 Phase Power Analyzer and Multifunction Installation Tester

- Insulation resistance: test voltage 50 V, 100 V, 250 V, 500V, 1000 V DC, EN 61557-2
- Loop and line impedance, display of short circuit current Ik, EN 61557-3
- Low ohm measurement with > 200 mA DC, EN 61557-4
- RCD testing: tripping time, tripping current, touch leakage voltage Ub, EN 61557-6
- Measurement of earth resistance and ground resistivity, EN 61557-5
- Phase sequence, EN 61557-7

Safety standards: The instrument complies with the general safety appointments according to EN 61010-1, CAT III 600 V for voltage measurement.
Display: Graphical – dot matrix
Resolution: 128 x 128 (16384 pixel)
Visible region: 73 x 73 mm
Accessories: Clamp-Ons and adapter for the 3 analog inputs. The transforming ratio for the 3 analog inputs is selectable. Depending on wich Clamp-On is used, the measuring rate can be extended from 5 mA to 3000 A.

Additional Power Analyzer Function:
- Current, Voltage
- Apparent power, reactive power, active power, Power Factor
- Power consumption, energy
- Harmonic analysis of voltages and currents
- Residual voltage, voltage drops
- Voltage peaks

Additional Adapter Function:
The GSC-53 A is equipped with 3 analog inputs that allows measurement (with adapters) and storage of the following environmental parameters:
• Temperature • Humidity • Lux • Noise and Leq (dB) Type 1

The GSC-53A is available in following versions:
- GSC-53A without clamp adapters
- GSC-53A with 3 flex clamp adapters ACF-3003

Note: only available in English or German language.

General data of Genius 5035 + GSC-53 A	
Display	Grafic display, back light (only GSC-53 A)
Memory	128 kbyte (Genius 5035)
Interface	RS232
Recording interval	adjustable from 5 sec. up to 15 min. (only GSC-53 A)
Memory GSC-53 A	2 MB, for appr. 700 - 1000 measuring quantities for VDE 0100 resp. max. 67 days recording
Auto power off	10 min.

General data of Genius 5035	
Autonomy	5000 measurements
Relative humidity	85 %
Safety:	EN61010 CAT III 600 V
Protection class	IP50
Dimension	225 x 165 x 120 mm
Weight	appr. 1500 g
Power supply	6 x 1,5 V, AA LR6

Technical features of Genius 5035 + GSC-53 A		
Analog input (only GSC-53 A)		-1000 m VDC - +1000 mV DC
Resolution		0,1 mV
Temperature adapter	(HT52)	-40 °C - 80 °C
Humidity	(HT52)	10 - 98 % RH
Intensity of light	(HT53)	0 - 20.000 Lux
Low Ohm range	**(Low resistance measurement)**	0 - 20 Ohm
	Resolution	0,01 Ohm
	Test current	> 200 mA DC
	Open circuit viltage	> 4,5 V
	Test lead compensation	Yes
Insulation resistance		
	Test current	100, 250, 500, 1000 V DC
	Range	0 - 1,999 MOhm
		2 - 19,99 MOhm
		20 - 999,9 MOhm
	Resolution	1 kOhm
		10 kOhm
		100 kOhm
	Open circuit voltage	1,3 x Test voltage
	Short circuit current	1,4 mA (max.)
	Rated voltage	1 mA
Earth resistance		
	Range	0 - 19,99 Ohm
		20 - 199,9 Ohm
		200 - 1999 Ohm
	Resolution	0,01 Ohm
		0,1 Ohm
		1 Ohm
	Frequency	125 Hz ± 1 Hz (Sinus)
	Test current	≤ 10 mA
	Open circuit voltage	≤ 80 V
Loop Impedanz	**Phase-Phase(Zpp), Phase-Neutral (Zpn), Phase-Earth (Zpe)**	
	Range	0 - 19,99 Ohm
		20 - 199,9 Ohm
		200 - 1999 Ohm
	Resolution	0,01 Ohm
		0,1 Ohm, 1 Ohm
	Measuring	10 A ± 10 % (10 ms)
Calculation of short circuit current		
	Ik max (theoretically)	40 kA
Earth resistance RE without RCD tripping		
	Range RE	0,1 Ohm - 10 kOhm
	Test current	0,5 IΔN RCD

Technical features of Genius 5035 + GSC-53 A		
AC Voltage		
	Range	500 V
	Resolution	1 V
Frequency		
	Range	15,3 - 99,9 Hz
		100 - 499 Hz
	Resolution	0,1 Hz
		1 Hz
Phase sequencing		L1, L2, L3 or L2, L1, L3
RCD tests		
	RCD type	AC, A and selective
	Rated tripping currents	10 mA, 30 mA, 100 mA
		300 mA, 500 mA, 1000 mA
Trip Time (IΔN)		
*) with control of contact voltage	Test current	1/2 IΔN
**) excluding 500 mA and 1000 mA		2 IΔN
		5 IΔN RCD S**
		5 IΔN RCD**
	Range	0 - 1999 ms
		0 - 199,9 ms
		0 - 150 ms
		0 - 40 ms
	Resolution	0,1 ms*
Trip current		
	Range	(0,5 - 1,4) IΔN
	Resolution	0,1 IΔN
Touch current		
	Range	0 - 100 V
	Resolution	0,1 V
	UB lim:	25 V or 50 V
Power (only GSC-53 A)		
	Resolution	10 W
Harmonics (only GSC-53 A)		
	Range	2. - 50. harmonic
Safety: IEC/EN 61010 (VDE 0411) all measurement according to VDE 0413 (EN 61557)		

Air Flow

Ideal for HVAC/R technicians, electricians, research, industrial process and quality control

TMA10A Anemometer with flexible precision vane

- Measure air velocity or air volume
- Input the surface area for accurate air flow measurements
- Precise thermistor for temperature
- Continuous moving average results for up to two hours
- MIN/MAX/AVG readings
- Air velocity average for eight multiple points
- Data hold to freeze measurement display of both readings
- Deluxe hard carrying case

FUNCTION	RANGE	ACCURACY
Air Velocity m/s	0.40 m to 25.00 m/s	± 2 % of full scale
ft/min	125 ft to 4900 ft/min	± 2 % of full scale
Air Flow cm/s	0.01 m to 99.99 m3/sec	0 to 9.999 m
cf/m	1 ft to 9999 ft3/min	0 to 9.999 ft
Air Temp. °C	0 °C to 50 °C	± 0.8 °C

Temperature

TMD90A Dual input digital thermometer w/ triple display

Ideal for HVAC/R technicians, electricians, research, industrial process and quality control

- Triple display of T1, T2, T1 - T2, plus relative time stamp
- Dual inputs-for easy super-heat and sub-cool temperature measurements
- Deluxe hard carrying case, 2 Type K probes
- Accepts Type J, K, T, R, S, E thermocouple inputs
- RS232 output with optional cable and software, TM-SWA

SPECIFICATIONS	RANGE	ACCURACY
Type K	-200 °C to 1370 °C	(0.1 % rdg + 0.7 °C)
Type J	-200 °C to 760 °C	(0.1 % rdg + 0.7 °C)
Type T	-200 °C to 390 °C	(0.1 % rdg + 0.7 °C)
Type R & S	0 °C to 1760 °C	(0.3 % rdg + 0.7 °C)
Type E	-200 °C to 736 °C	(0.3 % rdg + 0.7 °C)

TM45A Type K single input thermometer

Ideal for HVAC/R contractor, plant maintenance, commercial building service

- Unique, mini-stick design thermometer
- Small, go-anywhere size
- Type K thermocouple compatible
- °C/°F and 1°/0.1° selectable
- Data and max hold
- Type K probe and carrying case included

Surface Probe

TPP1-C1 Immersion probe pocket thermometer
TPP2-C1 Flat surface probe pocket thermometer

- 0.1 °C (0.1 °F) resolution
- Easy-to-read digital display
- Data Hold to freeze display
- Temperature ranges:
  -50 °C to 250 °C
- Protective probe sleeve (TPP1 only)

Relative Humidity

These temperature meters use a precision capacitance sensor to deliver accurate performance with long term stability. These high accuracy instruments measure the full range of relative humidity from 0% to 100%

TH-3, THWD-3
Relative Humidity Temperature Meters

- Dual display
- Relative function monitors humidity and temperature changes (TH-3)
- Extended probe stem to easily access air ducts
- Capacitive sensor with protective cover
- Min/Max readings
- Wet bulb (THWD-3 only)
- Dew point (THWD-3 only)
- Data Hold
- Auto Power off
- Soft Carrying Case

SPECIFICATIONS	
TH-3 & THWD-3 %RH Accuracy @ 23 °C	<10, >90 %RH ± 5.0 %RH 10 to 90 %RH ± 3.0 %RH Temperature coefficient: 0.1x(specified accuracy)/ °C (<23 °C or >23 °C)
Temperature Accuracy	-20 to 60 °C ± 0.8 °C
THWD-3 (only) Wet Bulb & Dew Point Temperature Accuracy	-20 to 60 °C ± 0.8 °C

Infrared Thermometer

A quick and effective diagnostic tool for identifying problems in a wide variety of applications like HVAC/R, fire safety and protection, industrial, maintenance, automotive.

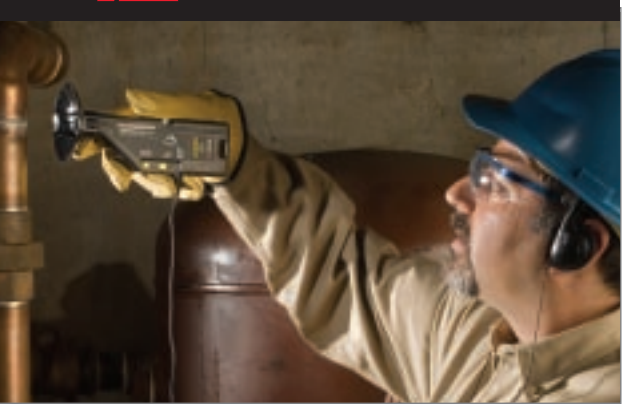
IR608A IR Thermometer Laser Pointer

- Laser pointer for easy targeting
- "Pistol grip design" for easy reading
- Display Hold
- Backlit display
- Fast response time
- 8:1 Field of view
- Fixed emissivity at 0.95

IR610A IR Thermometer

- Laser pointer for accurate targeting
- Measures to 260 °C front panel switchable
- Narrow 10:1 field of view measures 25 mm at .25 m distance
- Large 3-1/2 digit display with backlight
- Data Hold, low battery indicator
- Fixed emissivity at 0.95
- Rugged Valox® case
- Shipped with carrying case and batteries

SPECIFICATIONS	IR608A	IR610A
Range	-18 °C to 400 °C	-20 °C to 260 °C
Distance to spot size	8:1 ratio	10:1 ratio
Resolution	N/A	1 °C
Accuracy	± 2 % of reading or ± 2 °C, whichever is greater	± 3% of rdg or ± 3 °C
Emissivity	Pre-set 0.95	N/A



Ultrasonic Leak Detection

When leaks occur they often generate an ultrasonic frequency that is beyond human hearing. These units convert the sounds into an auduble range for easy detection. The ULD-300 tests pressurized air lines, refrigeration systems, steam lines for leaks. Check for door or trunk seals, windshield leaks. Quickly and easily locate a leak location with this unique device.

ULD-300 Ultrasonic Leak Detector

- Locates arcing in an electrical system
- Useful in finding the ends of buried PVC pipes
- Includes:
  - -Parabola to reduce background noise
  - -Extension tube to access difficult or dangerous areas
- Detects any pressurized gas leak regardless of type CFC's, HFC's, Nitrogen, etc. (non-combustible gas)

In areas where leaking gases are not sufficiently pressurized, there is no ultrasonic sound for detection. The area can be pressurized with the ultrasonic sound waves created by Amprobe's UT-300 Ultrasonic Transmitter. This will allow the detection of cracks which would not normally be possible.

TMULD-300 Ultrasonic Leak Detector Kit (Set of ULD-300 with UT-300 Transmitter)

- Same features as ULD-300
- Includes transmitter
- Transmitter "pressurizes" area with ultrasonic sound enabling the ULD 300 to pinpoint leaks (used in areas where gas is not sufficiently pressurized)
- Applications include air tightness of cars or houses

Sound Meter

The SM-70 sound meter has been designed for simple noise surveys and sound level checks. Easy to use for measuring noise in factories, industrial complexes, fire alarms and other alarm systems, sound system installations. Use the sound level calibrator to calibrate microphones and the SM-70 sound meter.

SM-70 Sound Meter

- Measuring level range from 35 dB to 130 dB
- A and C weightings for checking compliance with safety regulations as well as acoustic analysis
- Frequency range 31.5 Hz – 8 kHz
- Slow (1 sec) and fast (125ms) response settings to check peak and average noise levels

OPTIONAL ACCESSORIES	PART NUMBER
CAL-SM Sound level calibrator ■ Two fixed output levels of 94 dB and 114 dB ■ Output frequency of 100Hz	CAL-SM

Light Meter

Compact, rugged, and simple to use, our light meters display light levels quickly and accurately in both foot-candles or lux. They quickly define the amount of light radiating from a source or measure the amount of light energy illuminating an object or field. Light meters can help to reduce the amount of waste light used in the office or home, measure light pollution outdoors, and ensure proper light levels for work areas.

LM-80 Digital Light Meter

- Dual measurement capability in Foot-Candles or Lux
- Measures from 0.01 to 20,000 Foot-Candles or Lux
- Measurement ranges of 20/ 200/ 2000/ 20,000 fc or Lux
- Analog DC Voltage output to operate with a Chart Recorder or Data Logger
- Measuring rate of 2.0 times/sec
- Data and Peak Hold features
- Cosine corrected for the angular incidence of light (C.I.E sensitivity adjustment to photo optic curve)
- Accuracy: ‹10,000 lux/fc range ± 3% of reading ± 0.5% full scale
  Accuracy: ›10,000 lux/fc range ± 4% of reading ± 10 digits

LM631A Digital Light Meter

- Measures wide range of light up to 20,000 lux (or fc), front panel switchable
- Sensor dome has 114 cm (45 in) attached cord
- Built-in CIE spectrum curve for accurate human eye response
- Peak Hold and Data Hold
- Large 3-1/2 digit display with backlight
- Rugged Valox® case

Handheld Component Testers

CR50A Capacitor and Resistor Tester

- Measures capacitance and resistance
- Dual zero adjustment pots to null strays and test leads
- Wide measurement ranges
- Special “Low Ohms” range
- Ships with protective holster, test leads and threaded alligator clips

LCR55A Inductance, Capacitor and Resistor Tester

- Measures inductance, capacitance, resistance, transistors, diodes and microwave diodes
- Wide measurement ranges
- Data hold, max hold and auto-off
- Ships with protective holster, test leads and threaded alligator clips

FEATURES	CR50A	LCR55A
Resistance	0.01 Ω - 20 MΩ, ±1.0 %	0.01 Ω - 20 MΩ, ±0.5 %
Capacitance	0.1 pF - 20,000 µF, ±0.5 %	0.1 pF-2000 µF, ±1.0 %
Inductance	N/A	0.1 µH-200 H, ±5.0 %
Transistors	N/A	Hfe, Iceo (NPN, PNP)
Diodes	Yes	Std (3 V) & microwave oven (8 V)
Continuity test	Yes	Yes

Function Generators

FG2C-UA, 3 MHz Function Generator

Supplies all the basic test waveforms for depot service, design engineering, production or QC.

- Fast, easy push-button selection of square, triangle and sine waves plus TTL or CMOS pulse output
- Easy push-button selection for power, range and waveform
- Square, triangle, sine wave and TTL/CMOS outputs
- Duty cycle and DC offset control VCF input

FG3C-UA, 3 MHz Sweep/Function Generator

Provides sine, square, triangle waves and TL or CMOS pulse outputs. With a built-in frequency counter, this unit is great for heavy day-to-day usage in electronic troubleshooting, production manufacturing test or as a breadboarding signal source.

- 150 MHz frequency counter
- Best value combination generator and counter
- Amplitude or frequency modulation
- Linear and logarithmic sweep modes
- Duty cycle, VCF and DC offset control
- Switchable 20 dB attenuator for low signals

SPECIFICATIONS	FG3C-UA	FG2C-UA
Frequency Ranges	7 Ranges, 0.3 to 3MHz	7 Ranges, 0.3 to 3MHz
Output Amplitude	20Vp-p open circuit	20Vp-p open circuit
Sine Wave distortion	</= 1%, 0.3 to 200kHz	</= 1%, 0.3 to 200kHz
AM - Depth	0-100%	N/A
AM - Mod. Frequency	400Hz (int), DC to 1MHz ext	N/A
Carrier Bandwidth	100Hz to 3MHz (-3dB)	N/A
FM - Deviation	0 to +/- 5%	N/A
FM - Mod. Frequency	400Hz (int) DC to 20kHz (ext)	N/A
Display	6 digit, 0.3" high LED	Dial Control
Power Supply	115VAC or 230VAC, 60 or 50Hz	115VAC or 230VAC, 60 or 50Hz

Bench Multimeter

BDM40 Benchtop Meter with True-RMS

CAT I 1000V

High resolution and ranges for a low cost makes this benchtop multimeter ideal for production test, QA test, depost service and university or school labs.

- True-rms, 4-1/2 digit, 20,000-count
- AC or AC+DC input coupling
- High accuracy, basic V DC 0.03 %
- Voltage to 1200 V DC, 1000 V AC
- Current to 20 A
- Resistance from 20 MΩ
- Interlocking push-button control
- Safety acc. EN 61010, CAT I/1000 V

Accessories, Test leads

MTL-90B

DL248C

DL243C

48" long silicone lead wires, probe tips, alligator clips, spade lugs, carrying case

DL248C

Same as DL243C plus spring loaded crimp tips and Red tip length extender

MTL-90B

High quality set of test leads with alligator clips

MTL-500

MTL-500

Test lead kit contains: Double insulated Silicon Test Leads, Sharp Test Probes and Fully Insulated Alligator Clips

MTL-501

Test lead kit: Double Insulated Silicon Test Leads, Sharp Test Probes Fully Insulated Alligator Clips, USA Main Socket Test Adapters & Sprung Hook Tips

TL245A

PVC insulated standard test leads, CAT III 1000V rated

TL36A

Test leads with threaded alligator clips CATIV/600V, CAT III/100V

TL-1500

TL1500

Heavy Duty test leads CATIV/1000V, 1500V MAX

TL245A

Accessories, Carrying Case

CC-ACDC

Soft pouch zippered carrying case

CC-DM-III

Deluxe Heavy Duty carrying case

DC205C

Deluxe Heavy Duty carrying case

DC207C

Deluxe Heavy Duty carrying case with compartment for current transformer and extra accessories

GP-2CC

Soft pouch zippered carrying case

SV-U

Soft pouch zippered carrying case

VC221B

Vinyl carrying case

VC3A

Rugged zippered carrying case

VC30A

Vinyl carrying case

TL36A

Carrying Cases Chart

MODEL	CC-ACDC	DC250C	DC207C	GP-2CC	SV-U	TIC 302CC	TIC 303HV	VC221B	VC3A	VC30A
5XP-A										•
15XP-A										•
35XP-A										•
30XR-A		•	•					•		
33XR-A		•	•					•		
34XR-A		•	•					•		
37XR-A		•	•					•		
38XR-A		•	•					•		
ACD-6 PRO					•					
ACD-6 PRO-TRMS					•					
ACD-10 PLUS					•					
ACD-10 TRMS-PLUS					•					
ACD-14 FX					•					
ACD-14 TRMS-FX					•					
ACD-15 PRO					•					
ACD-15 TRMS-PRO					•					
ACD-16 PRO					•					
ACD-16 TRMS-PRO					•					
ACD-31P					•					
ACD-41PQ					•					
ACD-56HPQ					•					
ACDC-100					•					
ACDC-100 TRMS					•					
ACDC-620T	•									
ACDC-3000	•									
AM-140 TRMS	•									
AM-150 TRMS	•									
AM-160 TRMS	•									
AMB-45				•						
DGC-1000A	•									
HD110C		•	•					•		
HD160C		•	•					•		
TIC 300CC						•				
TIC 300HV							•			
PM51A									•	
PM53A									•	
PM55A									•	

VC3A

VC30A

DC205C

Current Transformers

A400, 400A Clamp-On Transformer

- For use with multimeters, oscilloscopes, power recorders or any instrument with AC milli-volt input (1mVAC per Amp)
- AC Current measurement from 0.1A to 400A
- Measures 50 or 60 Hz current
- Maximum jaw opening 1.18"

ACF-3000AK, 3000A Flexible Current Transformer

ACF-3000DM-A, ACF-3000SR Available with same features as ACF-3000AK

- For use with multimeters or any instrument with AC milli-volt input
- Measures up to 3000 Amps AC
- Connects directly to an instrument
- Flexible head fits all, small conductors and large bus-bars up to 7" in diameter
- Wide frequency bandwidth (10Hz to 20kHz)

CT235

- AC/DC current clamp,1000 A (50/10 kHz)

CT237

- AC/DC current clamp, 200 A (50/10 kHz)

CT238

- AC/DC current clamp, 20 A (50/20 kHz)
- Low current version

FEATURE	A400	ACF-3000AK	CT235	CT237	CT238
Current range	400 A AC	3000 A AC	1000 A AC/C	200 A AC/C	20 A AC/C
Output	mV	mV	mV	mV	mV
Conductor Max	30mm	178mm	30mm	19mm	19mm

CT-600 AC/DC

- For use with multimeters, oscilloscopes, power recorders or any instrument with AC and DC milli-volt input
- AC or DC Current measurement up to 600A
- Two ranges 100A and 600A (millivolt output respectively 10mV and 1mV per Amp)
- Wide frequency response 40-400Hz
- Maximum jaw opening 32mm
- Overload protection up to 800A
- Carrying case included

A-300

Mini Transducer Clamp-on from 1 mA up to 200 A AC

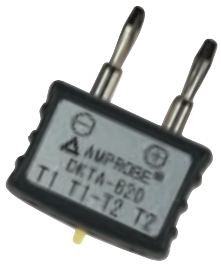
- For every multimeter with AC Volts input
- Leakage current measurement without opening the cable
- 3 measuring ranges 1 A/ 10 A /200 A AC
- Max conductor diameter 15 mm

Range	Output voltage	Frequency range	Accuracy
1 mA ... 1 A AC 1 A ... 10 A AC 10 A ... 200 A AC	1 mV/1 mA 100 mV/1 A 5 mV/1 A	40 - 60 Hz 40 - 5000 Hz 40 - 5000 Hz	± 2 % von 0,1 In bis 1,2 In max. 3 % of measured value

Temperature Adapter

DKTA-620, Single to dual temperature adapter

- Accessory for multimeters and clamp-ons with temperature input
- Converts single temperature input to a dual temperature
- Computes differential temperature between probes



DKTA-620

MH101KA, Thermocouple

- Master probe handle for probes
- 5:1 expandable coiled extension wire

MH101KA

TP110KA, Temperature Probe

- Immersion probe tip
- 650 °C

TP120KA, Temperature Probe

- Surface probe tip
- Specially designed to get true surface temperatures
- 650 °C

TP130KA, Temperature Probe

- Air/gas probe tip
- Specially designed with radiation sheath
- 650 °C

TP255A, General purpose Type K probe

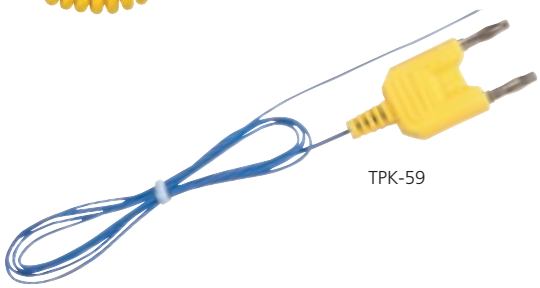
- 200 °C

TP254A, Higher-temperature immersion probe

- 1100 °C

TPK-59, Thermocouple

- Accessory for multimeters and clamp-ons with temperature input
- Measures temperature from -46°C to 316°C
- Plugs directly to a meter without additional adapters



TPK-59

Software and Cables

Transfer measurement data to your computer with these kits.

RS-232 KIT1

- Multimeter download software with connection cable

RS-232 KIT2

- Clamp-on download software with connection cable

RS-USB, USB to RS-232 Adapter

- Converts the USB port of a personal computer to the RS-232
- Supports Windows 95(OSR2X), 98, 2000, ME, XP Mac 8.6 and higher
- Works with Amprobe instruments with download capabilities
- Works with many other products with USB ports, including cameras, palm pilot, card readers, mouse, security systems, etc.
- Will free up the serial port for other uses

TM-SWA, RS232 Cable and Software

- Allows for real-time data downloads from TMA10A and TMD90A
- Records two channels simultaneously

TELARIS Interface Adapter

- IR to RS-232 interface for Telaris series

Amprobe Software Chart

MODEL	Download Suite 2.2	ACD Software 16/40	ACD Software 30/31/41	AM Software 120/130/150	AM Software 140/160	SuperLink	AMB-45 Software	38-SWA	TM-SWA	es control / es control PROF
38XR-A		•						•		
ACD-16 Pro		•								
ACD-16 TRMS Pro										
ACD-31P			•							
ACD-41 PQ			•							
AM-140 TRMS					•					
AM-150 TRMS				•						
AM-160 TRMS					•					
AMB-5KVD	•					•				
AMB-45	•						•			
TMA10A									•	
TMD90A									•	
Genius 5035										•
TELARIS 0100-PLUS										•
TELARIS RCD-TEST										•
TELARIS LOOP-TEST										•
TELARIS ISO-PRO										•
ALLTEST										•

Product Fuse Directory

Model	Fuse Part Number	Fuse Type
15XPA	FP200	F2A / 1000V
30XR-A	FP160 and FP375	F10A / 1000V; F0.25A / 700V
33XR-A	FP100 and FP300	F10A / 1000V; F0.315A / 1000V
34XR-A	FP100 and FP300	F10A / 1000V; F0.315A / 1000V
35XPA	FP200	F2A / 1000V
37XR-A	FP100 and FP500	F10A / 1000V; F0.5A / 1000V
38XR-A	FP100 and FP500	F10A / 1000V; F0.5A / 1000V
5XPA	FP300	F0.315A / 1000V
AM-140	FA-6X32/.63 and FA-12.5A/500V	FA-0.63A / 500V; FA-12.5A / 500V
AM-150	FA-15A/1000V and FA-1A/1000V	FA-15A / 1000V; FA-1A / 1000V
AM-160	FA-15A/1000V and FA-1A/1000V	FA-15A / 1000V; FA-1A / 1000V
AM-220	5X20-250.5	F0.5 / 250V
AM-240	5X20-250.5	F0.5 / 250V
AM-3	8AG361	F1A / 600V
AMB-1A	8AG361	F1A / 600V
AMB-2	8AG361	F1A / 600V
AMB-45	FA-0.5A/700V	FA0.5A/700V
AU92	FP520 and FP540	F0.5A / 500V; F10A / 500V
CR50	FP125	F0.1A / 250V
LCR55	FP125	F0.1A / 250V
DM7B	FP450	F0.2A / 600V
DM9B	FP175	F0.5A / 600V
HD110C	FP700	F2A / 1500VDC
HD160C	FP700	F2A / 1500VDC

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Safety Reference Guide

International safety standards

Test equipment must be designed to protect people who work in the high-voltage, high-current environment. In order to prevent injury the International Electrotechnical Commission (IEC) develops international general standards for safety of electrical equipment for measurement, control and laboratory use. The most current standard 61010 specifies overvoltage categories for electrical distribution systems. The Category rating increases based on the closeness to the power source and a higher level of user protection is required from test equipment.

Proposed Energy Regions*

CAT I

Electronics, signal level single-phase receptacle loads

CAT III

Three-phase distribution, large building lighting systems, distribution panel devices

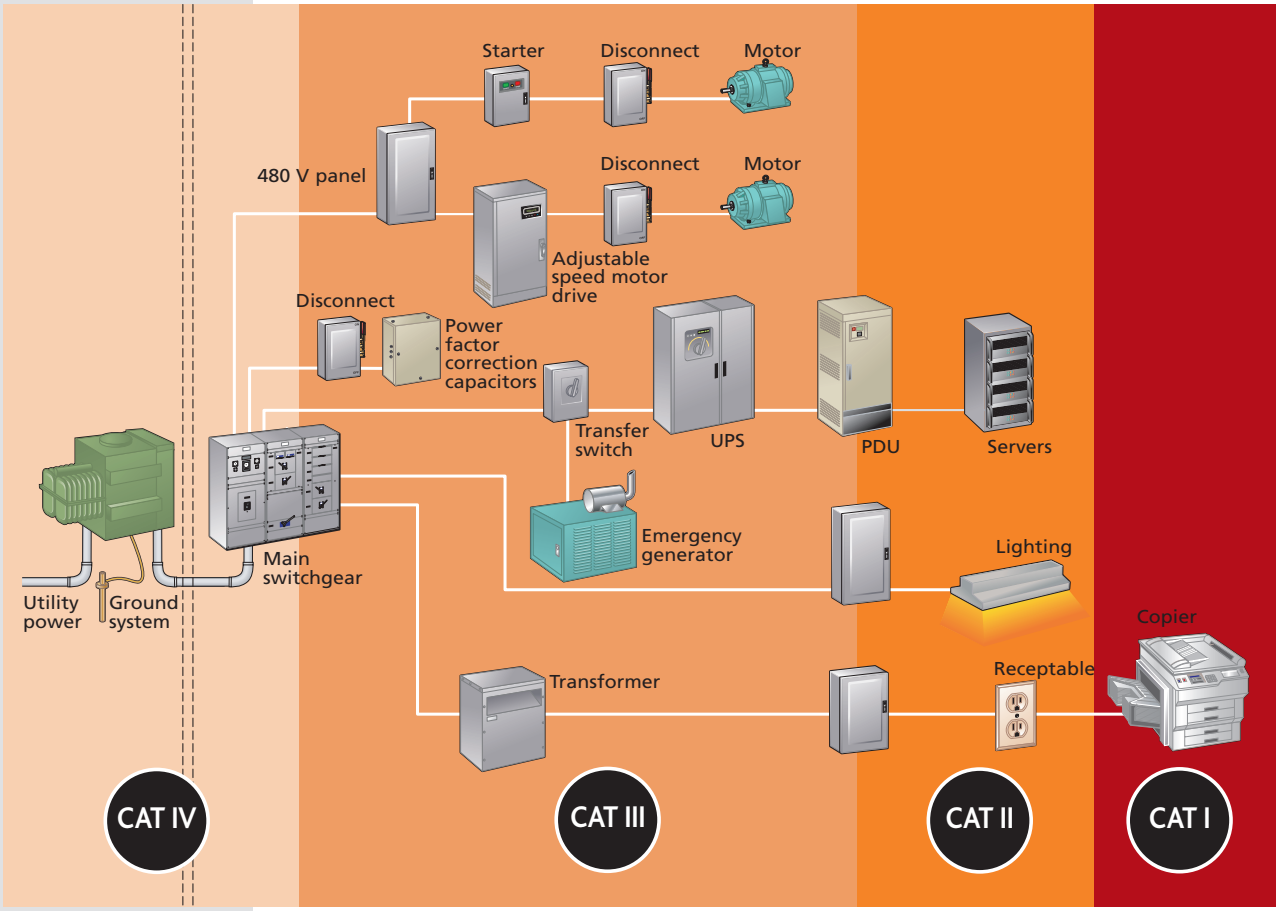
CAT II

Appliances, portable tools

CAT IV

Three-phase atutility connection, electricity meters, outside and service entrance

** Category ratings per EN 61010-1. Category boundaries may not be exact.*



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Specifications subject to change without notice.

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09/07 2765603 NP-EN Rev C
Pub_ID: 11284-eng